THE CHEMIST AND DRUGGIST

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OPIUM *and its preparations*

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"SILVER CHURN" Dairy Specialities

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Extract of Malt with Cod Liver Oil,

Emulsion of Cod Liver Oil,

Norwegian Cod Liver Oil.

SUPPLIED PACKED OR IN BULK.

Samples and Quotations on Request.

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May, Roberts' Traveller.

No. 4023 CITY. JUNE 9, 1917. LONDON & DUBLIN.

BATHING CAPS.

Rubber Helmets, Transparent Rubber Circular, Checks, Twills, Fancy Patterns.
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Immediately adjusted.
Does not Soil Skin or Clothing.
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Per dozen **38/6**
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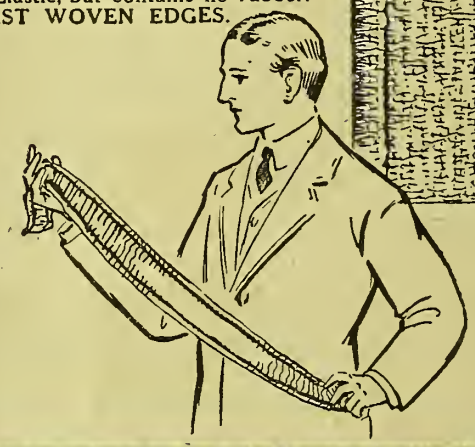
SUPERIOR ENGLISH MANUFACTURE
Extremely Elastic, but contains no rubber.
FAST WOVEN EDGES.

"I can do a full day's march as well as any man now that I have a Norwich Crêpe bandage."



Invaluable for all binding purposes. Entirely displaces bandages of rubber and elastic web. Considerably more durable, although less than one-third the price. Can be sterilized and washed repeatedly or laid aside for long periods without deterioration. Allows free circulation and ventilation and necessary warmth.

Suitable for all Climates.

Standard Qualities made of
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- Wool and Silk.
- Wool, Silk and Cotton.
- Wool and Cotton.
- All Cotton.

THE BANDAGE THAT CAN BE STERILIZED.

IMPORTANT
THE EDGES WILL NOT FRAY OUT NOR RAVEL.

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Sterilized Bandages.

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St. Augustine's Silk Mills, Norwich, Eng.

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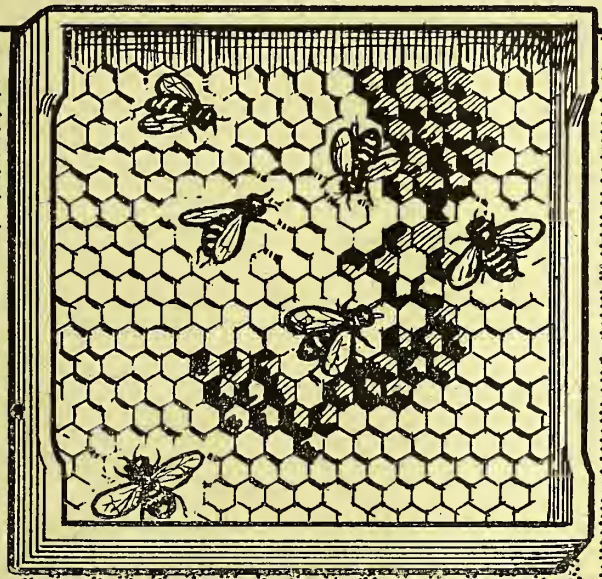

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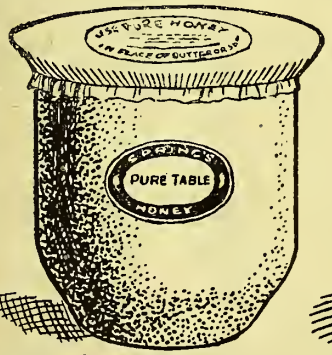

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ALL PURPOSES

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THE BEST SUMMER FLY PASTE

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✚ ALBYN FLUID
A CARBOLIC FLUID DIP of many merits

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For the destruction of Intestinal Worms in Sheep. Also a Valuable Tonic

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OF PRECISELY THE SAME EFFICIENCY AS WEEDICIDE

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Mixes well, adheres well, remains a long time in suspension, coats foliage uniformly, and does not scorch when properly prepared.

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1 gallon A. S. Fluid makes 80 gallons of Spray Mixture.

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WILLIAM COOPER & NEPHEWS, BERKHAMSTED.

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1917

The Year of Victory

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Manufactured at

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QUININE and QUININE SALTS.

Fully answering requirements of B.P. and other Pharmacopœias, Unexcelled in Uniformity of Quality, Brilliant Crystallisation and Purity of Colour.

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Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
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2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

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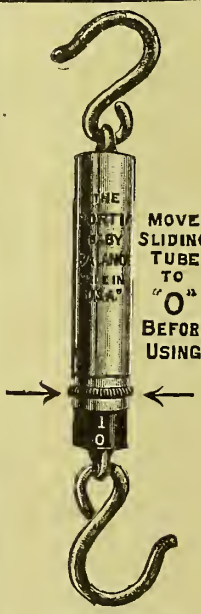

THE
"PORTIA"
(Regd.)
NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
12/6 dozen.	1/6 each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

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Amidopyrin
Barbitone
Beta Naphthol
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine and Salts
Cinchonidine and Salts
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Formaldehyde
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Pepsines, Pancreatin, Peptone and other digestive Ferments
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Salicylic Acid
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
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Terpine Hydrate
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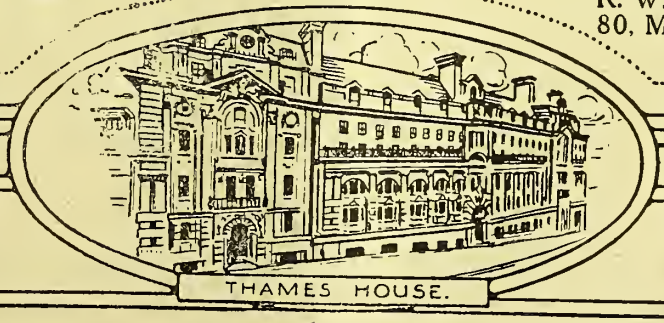

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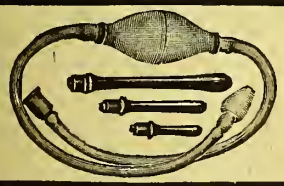

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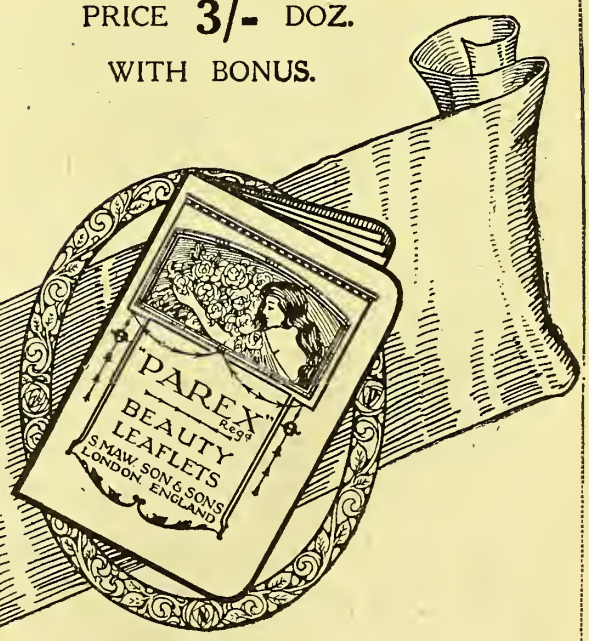

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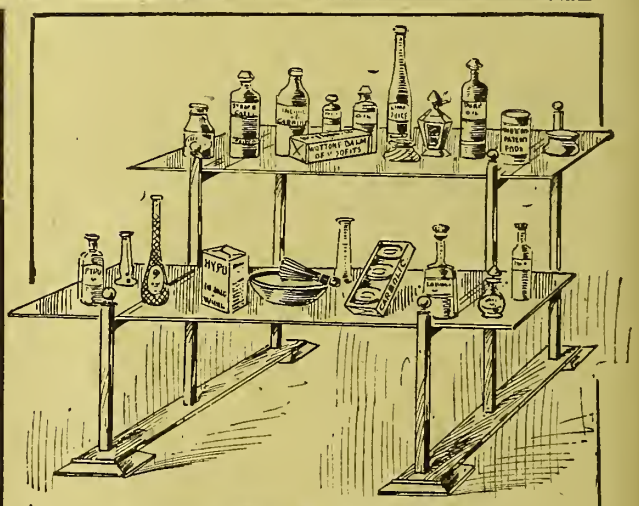

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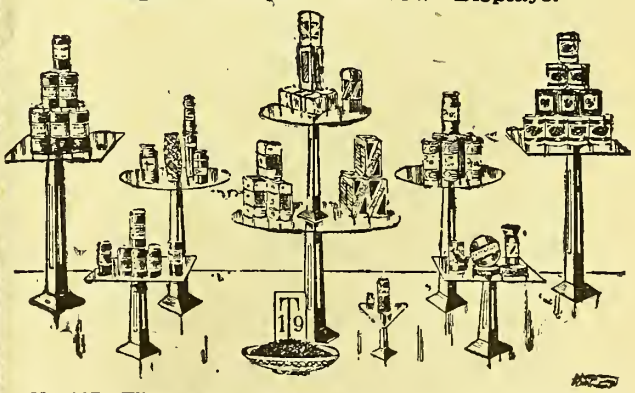

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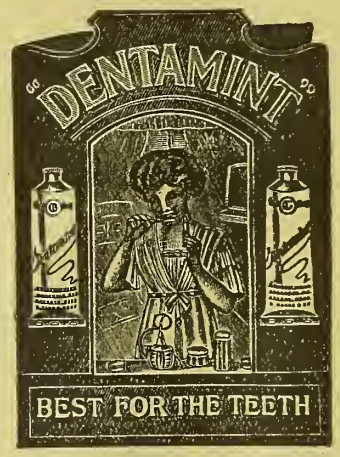

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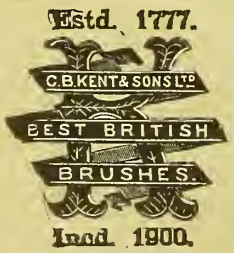

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Winter Issue, 1917, pp. 68, 69.
Diary 1917, pp. 108, 109.

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TOOTH POWDER.

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Send me as trial: ¼ gross Zoka Tooth Powder, 6d. size ... 9/6
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To WHITE BAND MANUFACTURING CO., LTD., SOUTH CROYDON.

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"L" Brand **Lysol**

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In order that Pharmacists, no less than the public, should readily be able to recognise our genuine British Made Potash Lysol we now affix a small green coloured label, as above illustrated, on the back of each package. "L" Brand Lysol costs no more than inferior preparations, but its quality and composition is guaranteed in every respect, as the following reports show :—

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THE MEDICAL TIMES, May 6, 1916.

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CAPSULES
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WITH POTASHES
NOT SODA

GIVES A
CLEAR
SOLUTION.

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ALL ON SPOT.

ACETIC ACID 80%

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"ALL BRITISH" VACUUM FLASK,

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"Ready to Serve."

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Leaves the hair bright after use.

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With 100 per cent. Profit

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'The Lancet' says: 'Of Standard Purity'

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The choicest and most delicious honey procurable. Screw-top Glass Jars, 15/- and 9/- per dozen. "Joybells" Honey in Red Earthenware Pots, 14/- per dozen; in bulk, 1/2 per lb. Tins charged and returnable.

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Equals that usually sold as Finest Clover Honey. Screw-top Glass Jars, 14/6 and 8/3 per dozen. In bulk, 1/1½ per lb.

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Fine quality. Tie-over Red Terra-Cotta Pots, 13/- per dozen. In bulk, 1/1 per lb.

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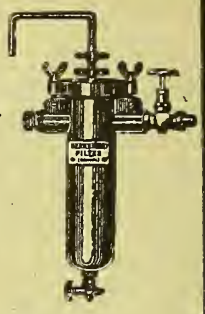

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(Trade Mark)

which are absolutely free from talc

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For Modifying and Humanising Cows' Milk

FOR INFANT FEEDING.

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SUPPLIED IN TWO SIZES.

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Trade-marks Applied for.

(From "The Trade-marks Journal," May 16, 1917.)

"DURINDONE"; for all goods (4). By Claus & Co., Ltd., Crabtree Lane, Clayton, Manchester. 377,436.

"HEMOXYGENATEUR"; for hypodermic injectors (11). By Rene de Knyff, 61 Route de Villejuif, Arcueil, France. 376,245.

"IRIS"; for indiarubber teats (11). By J. G. Franklin & Sons, Ltd., 17 Colvestone Crescent, Dalston, E. 8. 376,752.

"GOLDEN WHEAT"; for baking-powder (42). By Barclay & Sons, Ltd., 95 Farringdon Street, E.C. 4. 376,890.

Picture of stag; for cream-of-tartar substitute (42). By C. Christopherson & Co., 6 Lloyd's Avenue, E.C. 3. 377,056 (Associated.)

"CHEERO"; for mineral waters, etc. (44). By Duckworth & Co., Chester Road, Manchester. 377,653. (Associated.)

Monogram device; for toilet-creams, etc. (48). By The Thames Chemical Co., Ltd., 12 Norfolk Street, Strand, W.C. 2. 376,560.

(From "The Trade-marks Journal," May 23, 1917.)

"METZO LIMITED" over Swastika device; for photographic paper (39). By Metzo, Ltd., Scots Bridge Mill, Rickmansworth. 377,517. (Associated.)

Hexagonal device, with words "THE MARK OF HIGH QUALITY" and monogram "M & J"; for Infants' foods, etc. (42). By Menley & James, Ltd., Farringdon Road, E.C. 373,619.

"IGARDA"; for toilet-preparations (48). By C. G. Cowen, 136 Turney Road, Dulwich, S.E. 376,089.

"WHITE CHIEF"; for perfumery, etc. (48). By C. H. Parsons & Brother, Ltd., Ashby-de-la-Zouch. 377,311.

"FASTEP" on circle surrounded by conventional design of walking men; for a foot-powder (48). By E. Fougera & Co., 90-92 Beekman Street, New York. 376,312.

"SCENTALIN"; for perfumery tablets (48). By H. S. Lovell & Co., Ltd., 8-11 Baden Place, Borough, S.E. 1. 377,594.

European War News.

Import and Export Notices.

NORWAY.—The following have been placed on the prohibited list of exports: Calcium chloride, carbolic acid, coal pitch, crude creosol, degras, formalin, hydrochloric acid, calcined and crystallised sodium sulphate.

SWITZERLAND.—A list of articles, corrected to May 19, in respect of which licences for export to Switzerland are only granted if the goods are consigned to the Société Suisse de Surveillance Economique (S.S.S.) appears in the "Board of Trade Journal" of May 31.

TURKEY.—According to a decree of April 11, 1917, cocaine and its derivatives may be imported free of duty into Turkey.

Empire Resources.

A Committee, consisting of Sir James Stevenson, Bart. (Chairman), Mr. C. L. Budd, Sir A. Duckham, K.C.B., Professor W. R. Dunstan, C.M.G., Mr. C. W. Fielding, Mr. J. F. N. Green, Right Hon. Lord Islington, G.C.M.G., Mr. L. J. Kershaw, C.I.E., Sir T. Mackenzie, K.C.M.G., Hon. Sir G. H. Perley, K.C.M.G., Mr. W. S. Robinson, and Right Hon. W. P. Schreiner, C.M.G., K.C., has been appointed to prepare a scheme for the establishment in London of an Imperial Mineral Resources Bureau—

(*a*) To collect information in regard to the mineral resources and metal requirements of the Empire, and

(*b*) To advise what action, if any, may appear desirable to enable such resources to be developed and made available to meet requirements.

The Secretary is Mr. Oswald C. Allen, Ministry of Munitions, Whitehall Place, S.W. 1.

Personalia.

PRIVATE ERNEST G. BUCKLE, West Riding Regiment, who is posted as "missing," was prior to joining the Colours in the employ of Boots, Ltd., Halifax.

LIEUTENANT CHAS. T. TYRER, R.N.A.S., son of Mr. Thomas Tyrer, F.I.C., is now serving in France. Up till recently he was engaged in an African expedition.

LIEUTENANT W. L. EDWARDS, A.S.C., son of Mr. William Edwards (W. Edwards & Son, 157 Queen Victoria Street, London, E.C.), has been promoted to Captain.

PRIVATE GEORGE E. CLAYTON, West Yorkshire Regiment, has been awarded the Military Medal. He is the third son of the late Mr. J. H. Clayton, wholesale druggist, Union Street, Leeds.

PIONEER W. CLIFFORD EASTWOOD, R.E. (Chemist Section), has been wounded by a stray bullet. He was a pharmaceutical student at the Bradford Technical College prior to joining the Colours.

LIEUTENANT FREMLIN STEDMAN, R.F.C., son of Mr. Walter Stedman, dispensing chemist, West Malling, recently reported from France to be missing, has been ascertained to be a prisoner of war in Germany.

LIEUTENANT ARTHUR F. BOURDAS, R.F.A., youngest son of Mr. I. Bourdas, Ph.C., received from the King at Buckingham Palace on June 6 the Military Cross for conspicuous bravery in the field.

LIEUTENANT EDWIN DARLING, Royal Field Artillery, who was until the outbreak of war an analytical chemist at Edinburgh, has been awarded the Military Cross for successful reconnoitring-work in France.

GUNNER R. STEPHENSON, Royal Garrison Artillery, youngest son of the late Mr. R. Stephenson, pharmacist, Bradford, is in hospital suffering from gas-poisoning from enemy's shell-fire. He is progressing satisfactorily.

PRIVATE W. E. COLLINSON, London Regiment, who has recently been awarded the Military Medal, was, before he joined the Colours, in the employ of Wright, Layman & Umney, Ltd., wholesale druggists, Southwark Street, London, S.E.

SERGEANT R. C. SHAW, R.A.M.C., son of Mr. W. Shaw, dispenser to Dr. C. Rigby, Winckley Square, Preston, is mentioned in Sir Douglas Haig's despatches for distinguished conduct in the field. Sergeant Shaw was apprenticed to a Preston firm of chemists and druggists before joining the Army shortly after the outbreak of war.

SECOND-LIEUTENANT R. H. UPSON, Royal West Surrey (Queen's), attached to the Royal Flying Corps, has been taken prisoner by the Germans. He enlisted in September 1914, and received his commission about a year later. He is the son of Mr. A. Upson, dispensing chemist, Maidenhead, Past-Chairman of the Institute of Ophthalmic Opticians.

Second-Lieutenant J. O. R. Evans has been awarded the Military Cross for having "led his men forward in a most gallant manner, and succeeded in capturing two enemy machine-guns. He set a splendid example to his men, and rendered invaluable assistance throughout." He was formerly an apprentice with Mr. Emrys Evans, Tredegar, and at the outbreak of war he was engaged with Mr. W. M. Llewellyn, dispensing chemist, Tonypandy.

Second-Lieutenant E. D. Barclay, son of Sir Thomas and Lady Barclay, Uplands, Blackwell, has been admitted to hospital in France suffering from multiple gunshot wounds and suspected fracture of the right leg (severe). Lieutenant Barclay, who is in his twenty-second year, was educated at Tonbridge Public School, and proceeded to Caius College, Cambridge, in 1913. Immediately on the outbreak of war he joined the University O.T.C., and was gazetted in January 1915. In May 1916 he accompanied his regiment to Mesopotamia, where he contracted typhoid fever, and was invalided to Bombay and then home, arriving in England in November 1916. He again joined his battalion in France at the end of April.

Miscellaneous.

Glass Eyes.—All persons engaged in the manufacture, purchase, sale, or other dealings in artificial human eyes are directed to send in to the Director of Optical Munitions and Glassware Supply, 117 Piccadilly, London, W. 1, not later than June 12, returns containing particulars of the number, type, and material of all artificial human eyes in their possession or under their control.

War Hospital Concert.—Dr. Macnaughton Jones, on June 1, entertained a hundred wounded soldiers at Barnet War Hospital. Mr. J. Wellesley Douglas, dispensing chemist, Kennington, contributed several violin solos, and Mrs. Wellesley Douglas sang some war songs. Advantage was taken of the occasion to decorate one of the men with the Military Cross.

Flavine and Dyes.

Applications by British Dyes, Ltd., of Huddersfield, for the avoidance or suspension of patents No. 24,652/10 and 15,165/13, and for licences to use thirty provisional patents for dyes vested in the custodian, were heard in the Patent Office Court on June 7, before the Comptroller-General (Mr. W. Temple Franks) and Sir Cornelius Dalton.

Dr. Hey appeared for the applicants, and with him were Mr. Turner (managing director of British Dyes, Ltd.) and Dr. M. O. Forster (also a director of the company).

In reply to the Comptroller, Dr. Hey said his company is prepared to manufacture, in accordance with all the processes, not only dyes but medicinal products.

The Comptroller pointed out that it had been decided that makers of flavine by process 24,652/10 should call the antiseptic "Acriflavine," adding, of course, their own name after it if they liked.

Dr. Hey said with regard to application No. 13,866/14 (ureas of the naphthalene series) they proposed to use this process in the manufacture of drugs as well as dyes, but so far there is no specific name decided upon for the medicinal product.

The Comptroller said it is a question for consideration whether it would not be as well to apply the regulation of a specific name to the dyes as well as to the drugs. In this connection Sir Cornelius Dalton suggested that if several different medicinal products are made from the same original process the specific name might be misleading.

With regard to royalties, Dr. Hey suggested 2½ per cent. on the sale price, as in the case of other dyestuffs, and 1 per cent. on intermediate products.

Mr. Bloxam (on behalf of several of the patentees) thought the 1 per cent. on intermediates too low, and suggested 2½ per cent. over all.

Dr. Hey submitted a suggested grouping of the patents applied for, showing that at least six different licences would be required.

In answer to Sir Cornelius Dalton, Mr. Turner said they proposed to manufacture the flavine both as a dye and as an antiseptic, and Dr. Forster indicated that they are quite prepared to use the name "Acriflavine," and that another name could easily be invented for the dyestuff if necessary. It is misleading, he said, to use the word "Flavine," as that name is already in use for a vegetable dye. The antiseptic would, of course, be different from the dye, as it would have to be chemically pure.

The Comptroller said they would recommend the granting of the licences as suggested.

Military Tribunals' Decisions.

The Following Cases have been decided since our last report:

Ashtead.—Three months' exemption was granted to Mr. B. C. Crowell, dispensing chemist, in place of conditional exemption previously granted.

Bath.—Exemption until July 7 was granted to Mr. F. G. Simmerton, manager to Wilson & Dickinson, chemists, George Street.

Cambridge.—Three months' exemption was allowed to Mr. S. J. Parson and Mr. M. E. Parson, chemists, in business in the town.—Exemption was refused in the case of G. C. Delph, employed by Mr. E. H. Church, Ph.C.

Coventry.—On May 31 the cases of local chemists were dealt with, the appeals being supported by the Insurance Committee. Exemption was sought for twenty-nine men. Generally further time was given, but there is to be a report as to a suggested arrangement regarding two shops owned by Messrs. Bird and the release of one of the four dispensers employed by Boots, Ltd.; other cases are to be reviewed soon, and the rest in four months.

Harpenden.—Exemption, subject to substitution, has been granted to Alexander Smith, assistant to Mr. Jas. Busby, dispensing chemist.

Mansfield.—Chas. M. Glew, chemist's apprentice, was allowed exemption until September in order that he might sit for an examination.

Marylebone.—The application for the extension of the exemption granted to Norman Dootson, assistant with Mr. Richard Thomas, Ph.C., was refused. Mr. Thomas said it would mean the closing of one of his shops.

Oxford.—The application of Mr. C. J. V. Bellamy, Ph.C., for the exemption of Percival H. Plummer was refused, but the young man is not to be called up for a month.—Mr. S. H. Clegg, dispensing chemist, was refused further consideration, but he is to be allowed a month before being called up.

Rochester.—Conditional exemption was granted to Mr. C. G. Ostler, dispensing chemist, whose company was stated to dispense 47 per cent. of the Insurance prescriptions in the area.

St. Helier.—Exemption until July 31 was granted to R. F. Burgess, a porter with Mr. F. G. Piquet, The Halkett Pharmacy.

Shanklin.—The appeal of the Military Representative against the exemption of J. P. Pionchon, assistant with Mr. A. Ashfield, Ph.C., was dismissed.

Spalding.—Exemption until December 31 was granted to Mr. E. A. Osborn, dispensing chemist, at the Holland Appeal Tribunal on June 1.

Tunbridge Wells.—Exemption was refused to Mr. A. S. W. Pearman, son of Mrs. Pearman, but he is not to be called up for twenty-eight days.

West Byfleet.—Three months' exemption was granted to F. Johnson, assistant to Mr. S. B. Moss, dispensing chemist.

Worcester.—A substitution order was granted in the case of F. J. Newton, assistant with E. J. Kitson, Ltd., chemists.

Wrexham.—Exemption until July 16 was granted to J. L. Woodcock, dispenser with Francis & Co., chemists.

The question of one-man businesses came before the County of London Appeals Tribunal (Law Society Section) on June 6, when the Chairman (Mr. A. Richardson, M.P.) referred to the case, reported on the previous day, of a grocer, married, with one child, and the owner of a single-man business, who had obtained conditional exemption. Mr. Richardson said the decision does not alter the law, or give anyone the right to exemption who was not before entitled to it. The only effect would be to remind Tribunals that, however great the pressure brought on them to refuse exemption, applicants are entitled, not as a privilege or as a matter of discretion, but as a legal right, to receive exemption when they have established to the satisfaction of the Tribunal that serious hardship would ensue owing to exceptional business obligations if they are called up. The Tribunal is not entitled to refuse exemption because the applicant is in such circumstances a young man fit for general service.

Mr. P. W. E. Atkinson, dispensing chemist, 5 Golden Lion Bank, Whitby, having been called up for military service, is closing his business for the duration of the war.

H. H. McCarthy & Co., 186-188 Bishopsgate, London, E.C. 2, have transferred their business, together with the agency for the William Drug Co., Ltd., to Dutton, Massey & Co., Norfolk House, Laurence Pountney Hill, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham.

The applications from both chemists and lady pupils for mutual help in dispensing and pharmacy continue to be numerous.

Mr. Harold Rayne has resigned his adjutancy of the Chemists' Volunteer Corps, which was inaugurated some months ago at the Midland Institute meeting.

The Birmingham Guardians have increased the salary of Miss R. A. Casson, their dispenser, from 100*l.* to 120*l.* a year, in addition to dinner daily, valued at 13*l.* a year.

Will the census of tanning-materials affect the pharmacist who has several of these, if even in small quantities? It looks as though tannin will get in the list with glycerin and sugar.

Southall Bros. & Barclay, Ltd., are advertising for a hundred young girls for their surgical-dressings department, and they are required to be "clean, punctual, and attentive," a trinity of qualities so essential to their great business.

Some criticisms were offered at the last meeting of the Wolverhampton Board of Guardians in regard to the proposal to raise the salaries of eight of the officials, including the dispenser's (from 140*l.* to 150*l.*). The increases were not asked for, but were ultimately approved.

Mr. W. A. Cadbury, J.P., has given 1,000*l.* to the Y.M.C.A. Hut Fund, and his company 2,500*l.* Other contributors are Mr. W. A. Albright, 50*l.*; Mr. A. M. Chance, 50*l.*; the Midland Brewery Co., 50*l.*; Southall Bros. & Barclay, Ltd., 50*l.*; Alderman Clayton, Ph.C., 25*l.*; and Sir Thomas Barclay, 20*l.*

The June list of minimum retail prices produced by the Birmingham Pharmaceutical Association contains alterations in the prices of citric acid, camphor, cream of tartar, Epsom salt, hydrogen peroxide, lemon kali, bismuth lozenges, boric ointment, sulphur ointment, zinc ointment, shellac, and precipitated sulphur. The altered prices for proprietary articles concern antiphlogistine, Ashton & Parsons' pills and tinctures, Luton hair-dye, Piver's "standard" preparations, Rimmel's oatmeal, Robinson's barley and groats, and Tiz.

Liverpool.

Sir Edward Evans is completing his recovery at Buxton.

Mr. J. Hargreaves, Manor Pharmacy, Great Crosby, devotes his window-display to Sanagen and Icilma cream.

About 150 American Red Cross nurses have been spending a few days in Liverpool. They showed an appreciation of the American stocks kept by local pharmacists.

The application of a central-area pharmacist for a licence to buy glycerin for prescriptions has been refused by the Ministry of Munitions, who give permits only to facilitate the making of preparations required for urgent cases.

Goods from America long on order by pharmacists keep dribbling in. A central retailer saw in a Southport pharmacy the other day a new supply of a toilet-article he had had on order for five months. He rang up a wholesale house, and secured part of the consignment.

The Liverpool Pharmacists' Training Corps attended on June 5, at the Royal Institution, the first of a course of twenty lectures given by Mr. F. C. Lewis, Lecturer in Bacteriological Methods at the University of Liverpool. The course, open to pharmacists and their assistants, had attracted thirty-five entries, including several from Wirral. As drill instructor the Corps (which musters up to fifty) has secured Sergeant-Major Shone, whose efforts are promoting a high degree of efficiency. At a recent inspection Mr. Frank Tobin (Corps Superintendent), introduced by Dr. Murray Cairns, expressed himself highly pleased with the ambulance work. The Commandant (Mr. J. L. Hirst) replied, and stated that the Corps were anxious to be as useful as practicable, and hence had undertaken to assist in receiving and tending wounded soldiers.

Miscellaneous.

POISON-LICENCE.—Mr. J. H. Sutton, High Street, Marden, has applied to the Kent County Council for a poison-licence.

SIR JOSEPH BEECHAM'S FURNITURE.—The furniture belonging to the estate of Sir Joseph Beecham, Bart., at his residence at Hampstead, London, was last week sold by auction and fetched good prices.

SHOP-WINDOW LIGHTS.—The prohibition of window lights referred to last week (p. 35) is in respect to "lights used inside any shop for the purpose of advertisement or display when the shop is closed for serving customers."

MUSTARD.—The Kensington Borough Council have been informed that the Public Health Committee is of opinion that the packages of condiment-mustard, which, as is well known, is a mixture, are not labelled sufficiently legibly.

SHOPS ACT.—Cumberland County Council has issued an order for chemists and druggists at Egremont to close at 7 P.M. on Monday, Tuesday, Thursday, and Friday; 1 P.M. or 7 P.M. on Wednesday; and 9 P.M. or 1 P.M. on Saturday.

TELEGRAPHING MONEY ABROAD.—The telegraph money-order service which was instituted on July 1, 1916, with certain of the British Overseas Dominions has now been extended to British North Borneo and the Malay States of Johore, Kedah, and Perlis.

STAFF LISTS.—At Southport on June 4, Mr. Joseph Joye, dispensing chemist, was summoned for failing to send to the military authorities a list of alterations in his staff. Defendant said he was unaware that the information was required, and the case was dismissed on payment of costs.

HALAKITE INQUIRY.—Professor W. J. Pope, F.R.S., who was the chemical expert on the Committee of Inquiry regarding the refusal of the War Office to issue a licence to a company to trade in an explosive called halakite, has reported the result of his investigation. He states that the explosive was a clumsy fraud.

ROYAL INSTITUTION.—At a general meeting of the members of the Royal Institution held on June 4, the Duke of Northumberland, K.G. (President), in the chair, special thanks were returned to Professor Frank Clowes, D.Sc., for his gift of a print by Gilray, showing Dr. Garnett, with the aid of his assistant, Humphry Davy, lecturing at the Royal Institution.

DISPENSERS.—The Local Government Board has sanctioned the payment by the Southwark Board of Guardians of a gratuity of 5*l.* to Miss Fanny Flood, dispenser at the Newington Institution, in consideration of the extra services rendered by her.—Mr. C. T. Holloway has been appointed temporary dispenser at the Southwark Military Hospital, at a salary of 3*l.* 5*s.* a week.

FLAVINE.—Sir John Bland-Sutton, addressing the Court of Governors of the Middlesex Hospital, London, W., last week, gave some details of the uses to which the antiseptic flavine is being put (see *C. & D.*, January 27, p. 102). Many paragraphs and articles regarding flavine have since appeared in the London Press, but none exhibits exceptional knowledge of the matter dealt with.

SUGAR-GROWING.—According to "Nature," an organisation, known as the British Sugar-beet Growers' Society, Ltd., has been founded to take advantage of the grant from the Development Fund towards the purchase of an estate in this country for the purposes of sugar-beet growing and sugar-manufacture. An estate of 5,600 acres has been acquired at Kelham, near Newark, which is considered admirably adapted for the purpose.

"URGENT" LETTERS.—The Postmaster-General has now extended to all district and branch post-offices in the London area the system already in operation at the General Post-office, London, and at many head post-offices outside London, whereby the sender of a letter for the United States, for Portugal, or for any neutral country in Europe or America may secure that it shall be treated as specially urgent by the Post Office and the military censors, by affixing stamps to the value of half-a-crown in addition to the ordinary postage, and handing it over at the counter.

TABLE-WATER RETURNS.—Mr. J. H. Smith, of J. H. Smith & Co., "Doomo" Works, Newark-on-Trent, was on May 31 fined 10*l.*, and 5*l.* costs, for making a monthly return of his sale of table-waters instead of a weekly return. Mr. J. C. Robertson, Solicitor's Department, Customs and Excise, London, said Mr. Smith could have made monthly returns if he had given a bond, but he declined to do so. There were two summonses in respect of two weeks in May, and Mr. G. B. Burke, on behalf of defendant, gave an undertaking that the return shall in future be made weekly. Mr. Robertson said there was no suggestion that Mr. Smith had not paid the proper amount of duty.

POISONINGS.—The fatal cases of poisoning which have come to our notice this week include the following: A Cardiff girl named Whittle committed suicide with carbolic acid.—A little boy named Wills, of Bath, drank some liquid which had collected in a cyanide insect-killing bottle and died within a few minutes. The bottle had been left out of doors, and some rain had collected in it and dissolved the potassium cyanide.—Menthol snuff was stated to have been the indirect cause of the death at St. Pancras, London,

of a bricklayer named Day. The menthol snuff had been thrown on his face in play some time ago, the irritation caused erysipelas of the nose, and meningitis ensued, which proved fatal.

Wholesale Druggists' Staff.—The National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks inform us that, as a result of negotiations, a London company of wholesale druggists has made the following offer to its employés: 10 per cent. bonus on present wages to those already in receipt of a war bonus; 10 per cent. to those under twenty-one years of age. Those over twenty-one years of age not in receipt of any war bonus to be given 20 per cent., except women packers, who are only to receive 10 per cent. That those members of the staff who had been in the employ of the firm twelve months should be given one week's holiday. The request of the staff was for a 20-per-cent. war bonus to be paid to all employés not receiving the bonus; in other cases bonus now being paid to be brought up to 20 per cent. The offer of the firm is to be submitted to the meeting of the staff.

Analysts' Reports.—In his quarterly report the public analyst for Southampton refers to a sample of ground-nut cake sold under a guarantee of 40 to 42 per cent. of oil and albuminoids. It contained 39.23 per cent. of oil and albuminoids together, thus fulfilling the guarantee if the two items are treated as one and the margin of deviation allowed under the regulations of the Board of Agriculture is allowed for. Such a guarantee, however, is irregular, and not in accord with Section 1 (2) of the Act, which requires the vendor to supply an invoice stating what are the respective percentages of oil and albuminoids contained in the article.—Mr. J. F. Liverseege, F.I.C., Ph.C., analyst for Birmingham, states in his quarterly report that four informal samples of camphorated oil were analysed of the correct composition, or nearly so. A seidlitz-powder sample was deficient of 13 per cent. of the proper amount of tartaric acid, though the powders were marked "full weight." Another sample was carelessly prepared. Three samples of boric-acid ointment from one vendor were incorrectly prepared, and Mr. Liverseege suggests that the boric-acid ointment was poured into the boxes in a liquid state while the boric acid was separating, so that the earlier samples contained hardly any boric acid (two contained 0.5 per cent. only) and the later sample an excess (12.6 per cent.). A sample of zinc ointment contained 17.6 per cent. of zinc oxide instead of 15 per cent., and another sample from the same wholesale dealer contained a slight excess. It is probable, Mr. Liverseege adds, that in these cases sufficient care had not been taken to prevent the separation of the active ingredient during manufacture. A sample of potassium-iodide mixture was dispensed from a National Health Insurance prescription, which ordered potassium iodide 240 gr. and ammonium carbonate 48 gr. in an 8-oz. mixture. The bottle of medicine when dispensed contained only 190 gr. of potassium iodide and 43 gr. of ammonium carbonate.—At Southend-on-Sea last quarter eight samples of quinine pills were analysed and found to be unadulterated.—In Lambeth during the past quarter thirty samples of drugs were analysed, and three were reported against as follows: Two samples of Gregory powder were found to be both made with carbonate, not oxide, of magnesium; boric acid contained an excess of arsenic. As the above samples were informally taken, no action followed. Five other samples of Gregory powder and five other samples of boric acid were certified as satisfactory.

Irish News.

Pharmaceutical Society of Ireland.

The latest dates for lodging applications for the July examinations are as follows: Thursday, June 21, for the Preliminary examination; Tuesday, June 26, for the Registered Druggist examination; Wednesday, June 27, for the Pharmaceutical Licence examination; Monday, July 2, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar (Mr. Arthur T. Ferrall) by 11 A.M. on the respective dates.

Brevities.

Mr. John Nixon, Easton Crescent, Belfast, for many years commercial agent for John Lytle & Sons, chemical-manufacturers, Belfast, died suddenly last week.

The Belfast and Ulster Mineral Water Manufacturers' Association have decided that their customers must in future pay cash on delivery of goods. This course has been rendered necessary owing to the difficulty in securing materials and the discontinuance of credit generally in the wholesale trade.

Scottish News.

Brevities.

The demand for saccharin tablets increases daily, and the price in consequence is on the up grade.

Sphagnum-moss gathering is now in full swing again. Large quantities are being despatched to the various Fronts.

Mr. James Bowie, dispensing chemist, late of Duncan, Flockhart & Co., Edinburgh, has acquired the business of the late Mr. Peter Cowie, chemist, Upper Largo.

Mr. J. Skinner, dispensing chemist, Stirling, has obtained the contract for supplying diphtheria antitoxin and other serums to the burgh for the ensuing twelve months.

The destruction of the fly is again attracting attention, and chemists are being asked for the best "means to that end." Cleanliness is the first essential, then dusting with borax sprinkled with eucalyptus or sassafras oil.

The Registration of Business Names Act is proving of value to the retail pharmacist. Firms which formerly adopted fictitious names are now to appear in the full "limelight," which not infrequently is to the advantage of the true pharmacist.

That the good salesman will soon be reckoned at his true value is a surety. The no-window-dressing movement is making headway, and when we come back to the carboy and specie-jar age the need for salesmanship will become more than ever the "potent factor" in maintaining business.

Aberdeen.

Mrs. E. J. Walker, trading as McHardy's, seed-merchants, 46 Green, Aberdeen, is applying to the local authority for a poison-licence.

Aberdeen Town Council has decided against the use of virus for destroying rats. A professional rat-catcher is to be employed instead. The annual damage caused by rats in Aberdeen is stated to approximate 20,000*l*.

The Bills and Law Committee of the Aberdeen Town Council on May 31 received a report from the sanitary inspector to the effect that the signatures to the proposed Order for the earlier closing of chemists' and druggists' shops had all been verified, and that the chemists and druggists in the city are almost unanimously in favour of the proposed Closing Order, so that it only now required the confirmation of the Secretary for Scotland to become operative.

Edinburgh.

A local firm of cash-drapers advertises that "Post-orders are attended to with chemist-like accuracy."

June 25 will be observed in Edinburgh as a holiday, and wholesale warehouses will be closed on that date.

Tinctures will soon be advanced in price again. A local firm last week quoted rectified spirit at 58*s*. per gal. to account.

Chemical food and syrup. hypophosph. co. are being prepared successfully with golden syrup by one or two wholesale houses.

Police-constables have been inquiring at pharmacies if opium or cocaine is ever sold. "We've just been told to ask you" was the reply vouchsafed by a "bobby," when requested to give a reason for his inquiry.

The Council of the Royal Society of Edinburgh have awarded the Makdougall-Brisbane Prize to Robert Alexander Houstoun, Ph.D., D.Sc., for his series of papers on "The Absorption of Light by Inorganic Salts," and the Gunning Victoria Prize to Sir Thomas Muir, C.M.G., LL.D., F.R.S., for his series of memoirs upon "The Theory and History of Determinants and Allied Forms."

Glasgow

At the recent sale of Glasgow Tramways lost property, tooth-pastes, tooth-brushes, soaps, etc., figured on the list. Frequently medicine is also left on the cars, but obviously prescription medicines are unfit for competitive buying.

The result of the early-closing plébiscite in Glasgow shows that the two-thirds majority has not been forthcoming, and the local authority has decided to take no further action. The plébiscite was not sent to chemists and druggists. Mr. Albert Larking, Secretary of the Early Closing Association, informs us that he has written to the Lord Provost of Glasgow offering either to send experienced canvassers or to pay a personal visit to Glasgow and organise a canvass of the 2,211 traders who have not yet voted. Mr. Larking writes that he has no fear that the ultimate result would be to secure a two-thirds majority in favour of the Order, and states that it would be a "feather in the cap" for Glasgow to have the honour of being the first industrial city to adopt the advanced hour of 7 P.M. every night and 9 P.M. Saturdays.

Birthday Honours.

The list of honours conferred by the King on the occasion of the fifty-second anniversary of his birthday contains several names of interest to our readers, although this time only one of the persons honoured possesses pharmaceutical qualifications.

Sir William H. Lever, Bt.

Lord Devonport, who has just resigned the office of Food Controller owing to ill-health, is made a Viscount. Sir William H. Lever, Bart., has had a barony conferred on him. He is the head of Lever Bros., Ltd., Port Sunlight, soap-manufacturers, which from small beginnings has grown to be an enormous business, controlling also important sources of raw materials in various parts of the world. Sir William has built the model village of Port Sunlight, and is an enthusiastic supporter of co-operative profit-sharing. It has been announced that Sir William Lever intends adopting the title Lord Leverhulme—a combination of his own name and the maiden name of his late wife. Sir Thomas Dewar, chairman of A. & F. Pears, Ltd., has received a baronetcy, as also have the following: Mr. Thomas Wallace Russell, Vice-President of the Department of Agriculture and Technical Instruction for Ireland; Sir Philip Magnus, who represents the London University in the House of Commons; Sir Robert Hadfield, the inventor of manganese steel, and a member of the Society of Chemical Industry; and Dr. Frederick Taylor, the President of the Royal College of Physicians. The last-mentioned is a London consulting physician, and well known as the author of Taylor's "Practice of Medicine." The following are among those who have received knighthoods: Mr. A. H. Maguire, a match-manufacturer, who did much to promote legislation making the use of white phosphorus illegal in match-making; Professor T. Kennedy Dalziel, a Glasgow surgeon, who has specialised in surgery of the stomach and intestines; Mr. Herbert Furnival Waterhouse, M.D., F.R.C.S., lecturer on surgery at Charing Cross Hospital, London, and Dean of the Medical School connected with the hospital; Dr. Richard Tetley Glazebrook, C.B., the director of the National Physical Laboratory; Mr. Robert Jones, C.B., F.R.C.S., the Liverpool orthopædic surgeon; Professor W. J. Ashley, Dean of the Faculty of Commerce at Birmingham University; Mr. Graham Balfour, author of a book on the "Educational Systems of Great Britain and Ireland"; and Mr. C. C. McLeod, Chairman of the Mincing Lane Section of the London Chamber of Commerce, who is also Chairman of the Indian Trade Inquiry Committee of the Imperial Institute.

In the Naval and Civil lists Temp. Surgeon-General Sir W. Macewen, M.D., and Temp. Surgeon-General G. R. Turner, F.R.C.S., receive the C.B.; Dr. H. F. Heath, Secretary of the Department of Scientific and Industrial Research, receives the K.C.B.; and Mr. E. H. Gowers, Chief Inspector of the National Health Insurance Commission, receives the C.B. for services during the war. The C.M.G. is conferred on Colonel E. F. Harrison and Colonel A. W. Crossley for war services. Colonel Harrison is a pharmaceutical chemist, and has been a member of the Board of Examiners of the Pharmaceutical Society. Colonel Crossley was formerly Professor of Chemistry in the School of Pharmacy of the Pharmaceutical Society. The names of several medical men appear in the Colonial, Foreign Office, and Indian lists. In the last-named list occurs the name of Mr. G. A. Levett-Yeats, of the Opium Department, who is superintendent of the Ghazipur factory. He receives the C.I.E.

Lemons for the Sick are being provided by the Austrian Government, and are to be sold in pharmacies

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

The Post Office.

In the House of Commons on June 5, in the course of the debate on the Civil Service and Revenue Departments Estimates, the Postmaster-General (Mr. Illingworth) stated that if the writers of 50 per cent. of the letters addressed to London adopted the practice of using the new district numbers the saving in sorting-office labour would be 5,000*l.* a year. At present 40 per cent. of the letters are addressed in the new way, and this results in a saving of about 4,000*l.* per annum. He mentioned also that the public will no longer be required to endorse 5*l.* notes presented for payment at post-offices.

The Properties of Flavine.

General Croft has given notice that he intends to ask the Under-Secretary of State for War whether the properties of flavine were known to the medical profession in January last when a preliminary report was published in the "British Medical Journal," and whether up to this time substantial quantities of flavine cannot be obtained for the treatment of wounded soldiers in any hospital either at home or abroad.

The Under-Secretary is also to be asked whether the War Office has received information as to the properties of the new antiseptic flavine; if so, what steps have been taken to obtain it; to whom was the order given for the supply of flavine, and within what time was the order executed; whether there has been any delay in the execution of this order; and, if so, what is the reason.

National Health Insurance.

Our Parliamentary correspondent has high authority for stating, in view of the rumours which are in circulation on the point, that there is no intention on the part of the Government to transfer the administration of the National Health Insurance Commission to the Department of the Local Government Board. The suggestion has never even been considered, and the rumour has probably arisen from the fact that the Government are credited with the intention of setting up sooner or later a Ministry of Health. This, of course, would necessitate legislation, and a long time would elapse before a Bill creating such a department could be passed into law. If and when such a measure is brought forward, it is not unreasonable to assume that the question of bringing the Department of National Health Insurance under its direct control will be considered.

Chemists' Assistants.

Our Parliamentary correspondent learns that Mr. Alfred Byrne, M.P., who before the adjournment for the Whitsuntide recess directed attention in the House of Commons to the position of Irish chemists' assistants, is returning to the question, and on Thursday he addressed a further interrogatory on the subject to the Chief Secretary. He asked whether the Chief Secretary's attention has been drawn to the wages paid to and hours worked by Irish chemists' assistants; if he will see that these men, especially those in houses holding Government contracts, will be paid a decent wage; and if he will see that Government contracts are not placed in houses where there is sweated labour.—Mr. Bridgeman referred his questioner to the answer he gave on May 17.

In conversation with our representative Mr. Byrne stated that many of the assistants in Ireland are working sixteen hours a day for 25*s.* a week, and he alleged that a number of shops holding Government contracts were paying their employés not more than a pound a week. He considered that it is the duty of the War Office to see that any firm which secured a contract paid its employés a proper wage.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, June 10.

Pharmacists' Volunteer Corps, Imperial College Union, Prince Consort Road, South Kensington, London, W., at 10 A.M. Parade.

Tuesday, June 12

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 8 30 P.M. Panel meeting to consider whether the present Committee shall continue in office for another year, or whether an election shall take place.

Legal Reports.

The Vinegar Standard.—The Southampton County Magistrates have had sent back to them, on appeal to the High Court, the case in which Joseph Newman, Woolston, was summoned for selling vinegar "not of the nature, substance, and quality demanded, being deficient in acetic acid to the extent of 27.2 per cent. of the minimum of 4 per cent. which normal vinegar should contain." When the summons was originally heard, the Magistrates dismissed it on the ground that there is no standard for vinegar legally laid down. The inspector appealed on the point that except for spirits and milk there is no standard specified for any article under that statute, and that if the Magistrates refused to accept evidence of standards for other articles the Sale of Food and Drugs Acts would be a dead letter. The High Court ruled that the decision should be reversed and the case remitted for a conviction. A fine of 10*s.*, with 10*s.* 6*d.* costs, was imposed.

Prize Court Cases.—Sir Samuel Evans, in the Prize Court on June 5, condemned 200 barrels of phosphate of soda seized on the Swedish steamer *Hogland*, consigned by the Warner Chemical Co., New York, to the Alstie Bolaj Wilhelm Becker, Gothenburg. An affidavit had been prepared by a chemist relating to this cargo and similar cargoes on three other vessels. The substance, he said, was sodium acid pyrophosphate, which was used as a substitute for cream of tartar in preparing baking-powder. The total quantity on these four vessels was 1,200 barrels, weighing 300 tons, which was sufficient to prepare a thousand tons of baking-powder and treat 75,000 tons of flour, or an allowance of more than 30 lb. for every man, woman, and child in Sweden. By means of this substance nitric acid could also be prepared, from which explosives could be made. His Lordship said the phosphate of soda was conditional contraband, and must be condemned as prize. It was on its way eventually to Germany.

A Chemist's Letter.—At the Four Courts, Dublin, on June 5, before the Lord Chief Justice of Ireland and a special jury of the City of Dublin, Mr. Samuel Tarrant, Sligo, claimed damages for alleged libel and slander against Mr. Patrick N. White, Ph.C., Sligo. Mr. White counter-claimed for damages for libel alleged to have been published by the plaintiff. When the case was called, Mr. Serjeant Sullivan, for the defendant, Mr. White, said he felt sure that his Lordship, if he read the publication complained of, would agree that it was one to which the defendant should never have been a party. The letter should never have been written with respect to Mr. Tarrant. The matter arose out of some question of municipal politics in Sligo, and in regard to a matter not unknown to arise in other places nearer home—an increase of salary. The letter had been written in a moment of irritation. He trusted that the expression of regret which was now made would be accepted. Mr. Powell, K.C., for the plaintiff, said he at once accepted the peace proposals of his friend Serjeant Sullivan. His client had been actuated solely by a desire to vindicate himself from the personal attack made on him by the defendant. The case was accordingly struck out of the list.

Traffic in Opium.—At the Mansion House Police Court, London on June 4, Ng. Yong, a Chinaman, Adelaide Road, Chalk Farm, attended, before the Lord Mayor, to answer four summonses, at the instance of the Customs, charging him with unlawfully exporting opium to Shanghai, contrary to Proclamation. Mr. Osborne appeared for the defendant, who pleaded guilty. Mr. Robertson, on behalf of the Customs, said that the defendant, a commission agent, carried on business at Limehouse Causeway. On four specific dates, it was alleged, he had exported to Shanghai parcels of opium of 200 lb. weight each. These transactions were carried out through a Glasgow firm. Three of the parcels of opium were successfully exported to Shanghai, but the fourth parcel was stopped. This resulted in a prosecution and conviction of the person responsible at Glasgow. Defendant, said Mr. Robertson, appeared to have been doing a very extensive business, his turnover in respect of the legitimate sale of opium being 1,400*l.* a year. Mr. Osborne, on behalf of the defendant, said that he had been seventeen years in business in London. He was not aware of the Proclamation, and had acted in ignorance of the law. He was merely an agent in respect of the sale of the opium, receiving 2*s.* a lb. commission. The Lord Mayor remarked that this was a serious offence. No doubt the defendant had been engaged in opium traffic for some time past. He fined him 50*l.* on each of the four summonses—200*l.* in all—in default seventy-six days' imprisonment. The money was paid.

Inaccurate Dispensing.—Before Mr. Biron at Lambeth Police Court, London, on June 6, Mr. Frederick Ellis, dispensing chemist, trading as Charles Gadd, 1 Harleyford Road, Vauxhall, was summoned for having at a branch shop at 164 Wyndham Road, Camberwell, sold a compounded drug composed of bicarbonate of potash, iodide of potash, salicylate of soda, and water which was not composed of ingredients in accordance with the demand of the purchaser. In his certificate Dr. F. L. Teed, public analyst, said the bicarbonate of potash was deficient to the extent of 27 per cent., the iodide of potash was present to the extent of 75 per cent. in excess, and the salicylate of soda was present to the extent of 85 per cent. in excess. Mr. C. W. Tagg, Town Clerk of Camberwell, who supported the summons on behalf of the Borough Council, said the medical officer of health wrote a prescription and handed it to Inspector Collins, who took it to the defendant's shop at Wyndham Road to be made up. Mr. Kirby (Messrs. Neve, Beck & Kirby), appearing for the defence, said the mixture was made up by an assistant. He was afraid there had been considerable carelessness on the part of the dispenser. That it was nothing worse was shown by the analyst's certificate. Two ingredients—iodide of potash and salicylate of soda—were both in excess of the quantity prescribed. It so happened that those were the expensive ingredients. The cheap ingredient was the bicarbonate, which was deficient. Mr. Biron, remarking that this was an important matter, imposed a fine of 3*l.*, and 21*s.* costs.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Glass Engineering (Edinburgh) (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To take over the business of the Glass Engineering Co., also to carry on the business of manufacturers of and dealers in glass, bottles, etc. R.O., Norton Park, Edinburgh.

Squire & Co., Birmingham, Ltd. (P.C.).—Capital 50,000*l.*, in 1*l.* shares. Objects: To take over the business of a chemist carried on at various addresses in Oxford, Southend, London, Wombwell, Birmingham, Manchester, Salford, Hebden Bridge, Woking, St. Helens, Erith, Hull, Burnley, Wallington and Bargoed, as James Squire, Rees, Vines & Froom, Lambert & Co., Sloane Pharmacy, Thomas Needham, R. W. Tildesley, Squire & Co., Oliver & Co., Gigner & Co., T. H. Key, Hicks' Drug Stores, J. W. H. Littleboy, Thompson & Co., J. Armistead, Haynes & Coffin, Horrell & Goff, H. Squire, Hilburns, Milburns, Walker & Co., Roberts & Co., Guest & Co., Dean & Co., and Pritchard & Davies, and to enter into an agreement with Thomas Needham. The subscribers are E. M. Gee, 96 Middletonhall Road, King's Norton, Birmingham, chemist and druggist, and H. H. Swift, 41 Queen Street, Oxford, chemist and druggist. The first directors are Thos. Needham (permanent managing director) and Ernest M. Gee. Solicitors: John H. Mote & Son, 1 Gray's Inn Square, London, W.C. 1.

J. C. & J. Field, Ltd.—The report for the year ended March 31, 1917, states that the profit amounts to 26,637*l.*, and deducting from this amount interest on debentures, income-tax, directors', trustees', and auditor's fees, etc., there remains 18,418*l.*; 3,314*l.* was brought forward, making 21,732*l.* The board recommends a dividend of 5 per cent. on the ordinary shares, less income-tax, redeeming funded bonds to the extent of 5,000*l.*, and carrying forward 10,076*l.*

Joseph Watson & Sons, Ltd.—At a meeting of the shareholders of Joseph Watson & Sons, Ltd., soap-makers, Leeds, on June 4, the Chairman, Mr. Joseph Watson, announced that the year's profits, amounting to over 124,000*l.*, constituted a "record." The company's turnover was a very substantial increase on last year, which was also a "record." After paying a 5 per cent. dividend on the ordinary stock, 25,000*l.* was carried to the reserve and 30,000*l.* forward.

Maynard & Co., Ltd.—The annual report for the past year of the directors of this Singapore company of wholesale and retail chemists shows that after increasing the reserve against bad and doubtful debts to $3,000, writing off bad debts of $970.27, and allowing ample depreciation, there is a net profit for the year of $9,364.30. This compares very favourably with the transactions of the past two years. The board of directors consists of Dr. P. Fowlie, Mr. H. Freeman (chairman), Messrs. O. A. Kimmel and T. M. Maben; the last-named is also manager of the company.

Births.

BARRE.—At 7 Ballmacurra Terrace, Limerick, on May 7, the wife of R. J. Barre (manager of John Laird & Co.), of a son.

BODEN.—At 73 Micklehurst Road, Mossley, on May 30, the wife of Fred Grimké Boden, dispensing chemist, of a son.

JOHNSTONE.—At 184 Garrioch Road, N. Kelvinside, Glasgow, on May 26, the wife of Thomas S. Johnstone, dispensing chemist, of a daughter.

RYAN.—At Hedley House, Mountrath, Queen's Co., on May 23, the wife of Patrick Joseph Ryan, Ph.C., of a son.

Marriages.

DAVIES—SCARLETT.—At Christ Church, Crouch End, London, N., on June 5, Walter T. Davies (London manager, York Glass Co., Ltd.), to Florence Louise Scarlett, Rosebery Gardens, Crouch End, N.

LEE—MURRAY.—At Burlington House, Glasgow, on June 5, by the Rev. J. A. C. Mackellar, B.D., assisted by the Rev. W. Ogg, M.A., and the Rev. J. Weipers, B.D. (brother-in-law of the bridegroom), Cecil B. Lee, dispensing chemist, Glasgow, son of Mr. A. M. Lee, dispensing chemist, late of Strichen, to Flora McBeth, youngest daughter of Mr. John Murray, Mount Florida, Glasgow.

WRAY—RIDGE.—At St. John's, Clapham, London, S.W., on May 28, Wilfrid Ernest Wray, pharmacist, youngest son of Mr. Edward Wray, pharmacist, Grimsby, to Violet Maud, eldest daughter of Mr. E. H. Ridge, solicitor, 15 Bedford Row, W.C.

Silver Wedding.

MACKAY—JOHNSTONE.—At Standard Hotel, Glasgow, on June 7, 1892, by the Rev. Andrew Bonar, D.D., assisted by the Rev. Alex. Linn, David R. MacKay (Armour & Co., Ltd., London) to Caroline MacDermid, youngest daughter of John Johnstone. Present address: 22 Bellahouston Drive, Cardonald, Glasgow.

Deaths.

DIXON.—At 175 Loughborough Road, London, S.W., on June 2, Mr. Richard Dobson Dixon, town traveller with S. Maw, Son & Sons, Ltd. Mr. Dixon passed the Minor in 1876, and joined Maw's on March 1, 1883. After spending some time in the showroom, he started, on December 10, 1884, on a journey to Australia to represent the firm in that country. He returned on September 4, 1885, and two months afterwards went to India on a journey which extended to the end of March. At the end of 1886 he left the firm to start in business on his own account, but returned again in 1897 to succeed the late Mr. T. C. W. Martin as a town traveller. He was only laid up a few days before his death.

ELSTON.—At Lyndhurst, on May 30, as a result of burns from ignited methylated spirit, Phyllis Elston, daughter of Mr. Elston, dispensing chemist.

HAYNES.—At 1 Coleherne Terrace, London, S.W., on May 30, Mr. Arthur Herbert Haynes, pharmacist, aged forty-three. Mr. Haynes, who was managing partner of Tupholme & Son, retired to rest apparently in the best of health, but was found next morning to have passed away in his sleep. Medical evidence at the inquest disclosed the fact that his heart was seriously diseased, although he had made no complaint of illness. He was a native of Hogsthorpe, Lincolnshire, and qualified from the Metropolitan College of Pharmacy in 1896, entering the service of Tupholme & Son in the summer of the same year, and becoming a partner on the death of Mr. Frank Tupholme in 1913, when he took over the management of the business. He was popular with the customers at Coleherne Terrace, and particularly with the medical men who patronised that establishment. Mr. Haynes had been for some years a worker and office-bearer in the Munster Park Wesleyan Methodist Church, where the funeral service was held on June 5 prior to the interment at Fulham Cemetery. Pharmacy was represented at the funeral by Mr. T. V. Tupholme and Mr. T. R. Perkins (Henley-in-Arden), and among the numerous floral tributes were a number from customers, as well as one from the staff. He leaves a widow and a little daughter.

HEAP.—At Vineyard Close, Grunmount, Bury, on May 21, Mr. Richard Heap, for many years in business as a chemist and druggist at Bolton, where he served his apprenticeship, aged seventy-two.

MORGANS.—At Westgate House, Newport, Pem., on May 15, Mr. John Bowen Morgans, chemist and druggist, aged seventy-five.

RICHARDS.—At 8 Veronica Road, Balham, London, S.W., on May 24, Mr. Willis Billing Richards, chemist and druggist, aged eighty-six.

SHEARS.—At Bexhill-on-Sea, on May 2, suddenly, of cerebral hæmorrhage, Beatrice Jane Margaret, wife of Mr. James C. Shears (Bennett Sons & Shears, Ltd., 43 and 44 Shoe Lane, E.C.), aged fifty-eight.

SHEPPARD.—At Westfield Lane, Mansfield, on May 25, Mr. Samuel Sheppard, for many years with Mr. W. F. Wharmby, wholesale druggist, Wood Street, Mansfield. He was a sidesman at St. Peter's Church.

VERNON.—At 13 Jaffrey Street, Leigh, Lancs., on May 13, Mr. George Henry Vernon, chemist and druggist, aged forty-three.

VITALI.—At Venice recently, Professor Dioscoride Vitali, formerly Professor of Pharmaceutical Chemistry in the University of Bologna, aged eighty-five. He began life as a pharmacist at Piacenza, and afterwards became director of the dispensary of the Piacenza Hospital, and on the death of Francesco Selmi was appointed Professor of Pharmaceutical Chemistry at Bologna. His original researches were on the crystals of the blood, on blood-stains, on bile acids and pigments in the urine, and on acetone.

WOODCOCK.—Recently, after a long illness, Mr. J. W. Woodcock, 53 The Strand, Walmer, aged forty-nine. For many years Mr. Woodcock acted as dispenser for Drs. Mason and Lyddin.

Died on Service.

BURTON.—Captain Percy Herbert Burton, R.A.M.C. (T.F.), died of wounds received on May 12, aged forty-nine. He passed the Minor examination of the Pharmaceutical Society in 1890, and was formerly in business at Cambridge Road, London, N.E. Some chemists will remember his activity some years ago in connection with the London Chemists' Association. In 1914 he qualified as a medical man, receiving his education at the London Hospital, and afterwards started a practice at Stansted, Essex. He joined the Army in 1914, and was promoted to be a captain after a year's service.

COLLINS.—Private David Collins, Black Watch Territorials, who has been killed in action, served his apprenticeship with Thos. McMullan & Co., wholesale druggists, Victoria Street, Belfast. He was a nephew of Mr. Samuel McCullough, one of the firm's travelling representatives.

COX.—Private John Cox, Argyll and Sutherland Highlanders, died of wounds received in action in France at the beginning of May, aged twenty-one. Previous to enlistment he was assistant with Mr. H. Simpson, chemist, Parkhead Cross, Glasgow.

HADYN.—Corporal Trew Hadyn, Devonshire Regiment, who has been killed in action, was prior to joining the Colours a chemist's assistant at Mountain Ash.

HARRINGTON.—Lieutenant C. S. Harrington, Connaught Rangers, third son of Mr. W. B. Harrington, Lee View, Cork, has been drowned at sea, aged twenty.

ISON.—Lance-Corporal Charles F. Ison, Oxford and Bucks Light Infantry, only son of Mr. C. E. Ison, chemist and druggist, Long Street, Atherstone, has been killed in action. He was only twenty years of age, and joined the Colours in September 1914. He left for the Western Front in September 1915, and in the following November was transferred to the East.

JEBB.—Corporal C. F. Jebb was killed in action on May 6 in France, aged twenty-four. He joined the King's (Liverpool Regiment) in February 1915, was afterwards transferred to the Royal Engineers, and went to France in August 1915. In civil life he was employed by Hough, Hoseason & Co., manufacturing chemists, Holland Street Works, Pendleton, with whom he had been eight years. In a letter to his parents an officer speaks very highly of the fine character of Corporal Jebb.

LANGHAM.—Corporal Richard Langham, East Lancashire Regiment, has been reported killed in action in France. Previous to his enlistment he was employed by John Riley & Sons, Ltd., chemical-manufacturers, Hapton, Burnley.

MACDONALD.—Private Robert Macdonald, who prior to enlisting in the Royal Scots was employed as a chemist's assistant in Glasgow, has been killed in action. He was thirty-nine years of age. He was apprenticed with A. & W. Robertson, Elgin, and passed the Minor in 1899.

Trade Notes.

Carragheen Moss.—F. Ofverberg & Co., 18 St. Swithin's Lane, London, E.C. 4, offer carragheen moss from stock and for forward delivery.

Clark's College, 126 Chancery Lane, London, W.C. 2, announce that special courses for juniors, including prescription-reading, are now being formed.

Medicated Cutaneous Soap.—This soap, which is made by Edward Cook & Co., The Soapery, Bow, London, E. 3, sells at 9*d.* per tablet. The wholesale price is 6*d.*

Ayrton's Tea Tablets.—Revised prices for these are the subject of an advertisement in the Coloured Supplement by Ayrton, Saunders & Co., Ltd., wholesale druggists, Liverpool.

Paraffinum Liquidum.—A very fine sample of British refined liquid paraffin reaches us from Reddgrave, Butler & Co., Essex House, Stratford, London, E. It is perfectly colourless and tasteless, and the specific gravity is 0.885.

Alexol is a straw-hat cleaner for which Brook, Parker & Co., Ltd., Nelson Street, Bradford, are the selling-agents. It is made by Belgian refugees in England under the supervision of a Belgian pharmacist. The prices are given in an advertisement in this issue.

Sangers' Monthly List for June has been published since our last issue. The special lines this time are safety-razors and accessories—the "Imperial" razors and "Royal" stroppers. The list otherwise is concerned with price alterations which have taken place during the past month.

Aspirin-tablets.—H. & T. Kirby & Co., Ltd., Belton Road, Willesden Green, London, N.W. 2, advertise aspirin-tablets in this issue, but since the advertisement pages went to press the company have reduced the prices as follows: 25's, 6*s.* per doz.; 100's, 20*s.* per doz.; 1,000, 15*s.* Will our readers please note the altered prices?

"Evans' Journal."—The contents of the June issue include articles on "Venereal Diseases," "The Simpler Methods of Bacteriological Technique," "Hormones," "Colloids in Medicine," "The Present Position of the Cancer Problem," and "Some Points in the Bacteriology and Treatment of Leprosy."

Sorbo Sponges.—The feature about the Sorbo rubber sponges made by the Leeson Sponge and Rubber Co., Ltd., New Enterprise Works, Chiswick, London, W. 4, is that at first sight these are indistinguishable from ordinary sponge. It is a very clever invention, which was worked out by Mr. G. W. Leeson, and as it is a new British enterprise should be particularly noted by chemists. The bulk of the rubber sponges sold in this country before the war were imported, and the fostering of what is practically a new industry is of great national importance.

"L" Lysol.—In order to distinguish their "L" brand of lysol, Lysol, Ltd., Stratford, London, E. 15, are affixing a small green label on the back of each package of their product. This label (in black) is shown in the company's advertisement in this issue. We are informed that the Osyl tooth powder and paste have definitely "caught on," and that repeat orders are coming in. Flysol, a preparation for keeping away flies and also relieving the irritation caused by insect-bites, is another line which the company found to be successful last year, and for which similar success is anticipated this summer.

Insect-destruction.—Heppell & Co., manufacturing chemists, The Laboratories, 2 Eden Street, London, N.W. 1, have brought out a pamphlet entitled "Foes to National Health and Economy, or Insect Pests and How to Exterminate them," which deals in an interesting manner with the subjects embodied in the title. Heppell & Co. manufacture a fluid called Insectox for the destruction of insects, and the pamphlet gives complete directions for using this insecticide, which has already attained a reputation as a successful and not unpleasant destructive agent against noxious insects.

Prices of Brushes.—The cost of raw materials and production has advanced very rapidly in the brush-trade owing to the fact that nearly all its raw materials come from abroad. The increase of freights and insurance and the shortage of shipping have affected the supplies considerably, while the conditions in Russia, from which country the majority of the bristles come, have even greater influence. During the past six months alone there has been an advance in the price of Russian bristle from 33⅓ per cent. to 50 per cent. Italian whisk, fibre, wood stocks and handles, hemp and thrums, African bass and bassine, and "Bahia bass" have also advanced very much in price owing to short supplies. There is little likelihood of lower prices for a long time after peace is declared.

Society of Chemical Industry.

A Meeting of the London Section was held at Burlington House, Piccadilly, W., on June 4, Mr. A. R. Ling in the chair. A formal announcement was made of the election of the Committee (see *C. & D.*, May 12, p. 44, and May 19, p. 37), and the Chairman made sympathetic reference to the deaths of Mr. Francis Sutton and Mr. Peter MacEwan. Mr. Sutton was not a member of the Society, but his son Mr. F. Napier Sutton was well known to the Section on account of the able manner in which he organised the old dining club. Mr. MacEwan had been a constant visitor to the meetings, and had a great many friends in chemical industry, but no enemies. The Chairman also announced that there is to be an extra meeting of the Section on July 2. The evening was taken up with a paper by Mr. H. M. Ridge on *The Utilisation of the Sulphur contained in Zinc Ore.* This turned out to be of great interest on account of the expert information which the lecturer was able to give. The main source of spelter (zinc) is now zinc blende (zinc-sulphide ore), which is found in a more or less crude condition in various parts of the world. It was mentioned that of the world's requirements of zinc (224,000 tons) only a quarter was produced within the Empire, and thus is lost to us a source of cheap sulphuric acid, which could be made from the recovered sulphur. The method of preparing "concentrates" at Broken Hill was referred to, and then the lecturer dealt with the method of extracting the sulphur from the mineral, which can be carried out (*a*) by smelting with a metal such as iron or copper, of greater affinity for sulphur; (*b*) by treatment with the oxide of a strong base; and (*c*) by heating in the presence of oxygen. The usual method of separating the sulphur from blende is to roast the ore with a sufficiency of air to form zinc oxide and sulphur dioxide. Formerly processes were in use which allowed the sulphur to escape into the air with devastating effects on the vegetation of the neighbourhood. The recovery and utilisation of the sulphur dioxide were a direct result of legislation forbidding the emission of the deleterious gases from zinc-blende roasting which polluted the atmosphere. An interesting historical account was then given of the various furnaces that have been devised for roasting the ore and at the same time recovering the sulphur dioxide. The objections were stated to the different furnaces, but it appeared that the author's mechanical furnace possesses many advantages, and is actually working in this country upon Broken Hill concentrates. The interesting fact was mentioned that the lecturer had seen before the war a Belgian furnace operating with Australian concentrates and British coal, the resulting spelter being shipped to England. The second part of the paper dealt with the uses of the sulphur dioxide given off in roasting. The gas is utilised for making sulphites, liquid sulphur dioxide, and sulphuric acid, the last-mentioned being the main employment. As most zinc ores are free of arsenic, the sulphur dioxide is particularly useful for making sulphuric acid, but there are other difficulties, such as the presence of fluorine, antimony, mercury, and chlorine. The sulphuric acid is made by the contact process in the United States from zinc-blende gases, and has reached an enormous output—approaching half a million tons in 1915. The lecturer calculated that if the zinc required by this country were produced here from zinc blende, sufficient sulphur dioxide would be obtained to make 400,000 tons of sulphuric acid, and the acid could be made at from 8*s.* to 8*s.* 6*d.* per ton! The most important and serious factor for consideration here is the shortage of zinc-smelting capacity and all that this means in the cutting-off of cheap supplies of sulphuric acid. There was a good discussion, in which the Chairman, Dr. E. K. Rideal, Mr. W. F. Reid, and others took part. The other papers on the agenda were either taken as read or adjourned to the next meeting.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

47/30. Makers of small inexpensive brushes about four inches long, bone or wooden handles, suitable for applying hair-dye.

47/32. Dent's toothache-gum.
50/3. Kerr's face-lotion.
51/2. Adam's bears' grease.
51/1. Laxaznal nail-brushes.

The Commencing Salary now being offered to qualified temporary chemists in the inspection department at Woolwich is 175*l.* per annum.

Observations and Reflections.

By Xrayser II.

"Jay Mack" on the Title "Chemist"

is as vigorous as usual, but for once he is not convincing. May I go a little further, and say that his "we" is a little presumptuous? For whom does he speak? Certainly not for the bulk of the trade, when he says that "we want nothing to do with 'chemist' and detest the word 'pharmacist.'" He knows, or ought to know, that "drug" and "chemical" have quite different connotations, and that historically the title "Chemist and Druggist" marks the conjunction of two schools of medicine of which the pharmacist may say, "Both them I serve, and of their train am I." To give up the one term and content ourselves with the other would be self-mutilation, if not suicide. As for "Pharmacist," first suggested in THE CHEMIST AND DRUGGIST many years ago, every day that passes sees it growing in favour, both with the craft and with the public, and his contempt for it shows in "Jay Mack" an unsuspected insensitiveness to trade opinion.

The Disallowance of Proprietaries

in Insurance dispensing is resented in certain quarters as "high-handed tyranny," which, unless it refers only to the retrospective application of a new rule (which does not appear to be the case), seems to me an unreasonable attitude to assume. It is difficult to see how, in view of our former attitude towards proprietaries, especially as ingredients in medical prescriptions, we can consistently do other than approve of the decision of Insurance Committees to disallow them all. We have a real grievance so long as the prohibition is partial, and is so enforced as to leave any doubt what may and what may not be dispensed; and we should have one if the onus of choosing a substitute were cast upon us; but there is no hardship in simply declining the prescription and referring the patient back to the prescriber. We are indeed thus relieved of a grievance—that of having to decide doubtful cases. As to the general question of the use of proprietaries, we ought to welcome its disallowance as another step towards that

Scientific Prescribing,

the want of which we pharmacists have long regarded as a disgrace to the profession we serve. This is not to say that many proprietaries are not admirable remedies for the diseases for which they are intended, or that every prescriber ought to be intimately acquainted with their composition before prescribing them, but he ought to have the same opportunity of studying and understanding them, in their composition as well as their effects, as he has in the case of any other materia medica. Science and secrecy are, in this connection, contradictory terms, and nobody who professes to have a knowledge of medicine ought to prescribe a remedy whose composition he only knows vaguely.

What is an Essence?

Mr. Truman, speaking to the subscribers to the Drug-trade Appeal Fund, said there is no definition, and virtually this is true, for the so-called definitions are not really definitive. In pharmacy, says the "Oxford Dictionary," "essence is chiefly applied to alcoholic solutions containing the volatile elements or 'essential oil' to which the perfume, flavour, or therapeutic virtues of the substance are due"; and the quintessences of Paracelsus are referred to as having possibly suggested this use of the term. *Quintessence*, however, did not originate with Paracelsus, nor was it confined to such preparations as come under the definition given; Ens Veneris was popularly known as essence of Venus, or copper. Nor were essential oils originally so called; they were known as chemical oils, and the first use of *essence* I have found in official books is in the phrase "Essentia dicta" applied to oil of lemons in 1746. Now, oil of lemons is not (or should not be) an alcoholic solution. I believe the first acceptedly official appearance of *essentia* in our own Pharmacopœia was in 1885, when ess. anisi and ess. menth. pip. were introduced alongside of the much weaker "spirits." *Essence*, however, was a favourite term with proprietors: thus we have Oxley's Essence of Ginger, Whitehead's Essence of Mustard, Ward's Essence for Headache (lin. camph. co.), etc. Similarly, perfumers seized on the word, and it became a synonym for perfume. "Nor let the imprison'd essences exhale," says Pope in "The Rape of the Lock," and Tennyson, in "Maud," gave new life to what was becoming an obsolescent use: "His essences turn'd the live air sick," says the disgusted hero of the poem, speaking of his rival.

Starch,

whether from wheat, rye, rice, maize, or other grain, is now forbidden as an ingredient in toilet-powders and for laundry-work, and potato-starch is certain to become scarce with the scarcity of potatoes. This was announced some six weeks ago in THE CHEMIST AND DRUGGIST, and, it is interesting to note, has now filtered through to official headquarters. The purpose of this note, however, is to suggest that, as a substitute for the various starches, the cultivation of *Arum maculatum* (the source of the so-called Portland Sago) for commercial purposes might profitably be revived. The plant will grow anywhere, in places unsuitable for other agricultural or horticultural purposes, and a peck of its tubers is said to yield about 3 lb. of starch, of which Gerard, who calls the plant starchwort, says: "The most pure and white starch is made of the roots of Cuckow-pint; but most hurtfull to the hands of the Laundresse that hath the handling of it, for it choppeth, blistereth, and maketh the hands rough and rugged, and withall smarting." This acridity, however, is largely lost in the dry powder, and could probably be entirely got rid of. Arum starch is said, indeed, to have been an ingredient of the famous Cypress powder, and Phillips says the French make an excellent cosmetic wash from it. Formerly the tuber was frequently used for food in times of scarcity, though care had to be taken in its preparation, and it was largely employed in medicine, both externally and internally. There are other arums and allied plants that yield large quantities of starch.

That the Use of Maize

in diluted flour is objected to by many people, including medical men, who lay to its charge many new cases of dyspepsia, I can understand, especially if ground whole maize is employed. The amount of cellulose in whole maize is very considerable, and its use in large quantity is certain to cause very unpleasant symptoms, as I myself have experienced. But what I do not understand is the great popularity of maize as an article of diet amongst Americans, if it is true that it is so indigestible. I take it that the popular American dishes, corn mush and the like, are really prepared from the substance that has been familiar to us in this country for at least fifty years under the name cornflour or as one of a score of proprietary articles, and to Americans as corn-starch. The basis of blancmange is essentially maize-starch, though probably very few of us ever trouble to think anything about it. As to the liability of the oil to become rancid, this may be true, but there is no more oil in maize than in wheat and barley, and only a fifth of what is found in oats, and I am not at all sure whether the popular view that maize soon becomes rancid is founded on strictly scientific grounds. Oatmeal ought to be still more liable to turn rancid, and we know, in fact, that oatmeal, if not very carefully stored, acquires an "old" taste, which may be due to the oxidation of the oil.

THE FOOD PRODUCTION DEPARTMENT is arranging to supply glass jars for preserving fruit and vegetables. The price is 52*s*. per gross delivered.

AT the Royal Horticultural Society's show held in Westminster on June 5, Mr. Clarence Elliott exhibited belladonna and henbane grown at his Stevenage nurseries.

LORD RHONDDA is to address a meeting at the Queen's Hall, London, on June 13, at 5 P.M., on the progress made during the past six months in the campaign against venereal disease.

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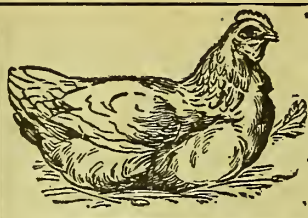
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Editorial Articles.

America and the War.

THE effect of the entry of the United States into the war has of late begun to be felt in the prices of many of the chemicals and drugs which were obtainable from that source. For quite two years we had been largely dependent upon the United States for certain industrial and synthetic chemicals and medicinal products, but for several weeks past there has been a marked falling-off in imports, due partly to the uncertainty of the markets, the possibility of Government intervention, and the conservation of home supplies for army and navy use. Consequently there has been a steadily advancing market for products like formaldehyde, hexamine, salicylates (both acid and soda), lithia and salts, Epsom salt, magnesias, saccharin, vanillin, choral hydrate, acetic acid, pyrogallic acid, and many others. With the prolongation of the war and a probable revival in the general demand later, it is felt that, apart from slight fluctuations either way, the prospects of tangibly lower prices are doubtful. As it is, many of the prices for fine chemicals in the United States are quite nominal, and much uncertainty exists in view of the fact that the Government has not yet decided its course of action in regard to the collection of revenue on chemicals and drugs generally. One of the most serious proposals which Congress is considering is a special increase of 10 per cent. in tariff rates, and immediately this became known importers of goods advanced their prices to that extent. It would have been thought that immediately America declared war there would be another wave of speculation in chemicals and drugs, similar to what occurred in all commercial centres at the outbreak of war; but in all fairness it must be said that the seriousness of the situation was quickly realised, and the desire has been to help the Government, who immediately mobilised the large manufacturers of medicinal supplies for the nation's defence. The "Oil, Paint, and Drug Reporter" states in detail how the problem is being tackled, because enormous quantities of chemicals and drugs, costing many millions of dollars, are required for medical and surgical use. As the result of a meeting of about 250 firms called together by the Council of National Defence, various Executive Committees have been formed to advise the Government in regard to obtaining supplies of all kinds of medicines and chemicals, and hearty co-operation has been given, the keynote of the meeting being that the "goods were to be supplied at such cost to the Government as will only yield a minimum profit to the maker." The United States has of course our experience to go upon in this respect, and the legislative machinery which has been set in motion will, it is anticipated, do away largely with "excess profits," which are so freely anathematised in this country.

The Glucose Position.

SEVERAL subscribers have asked us this week whether the Food Controller has issued an order limiting the uses to which glucose may be put, as purchasers have been told by manufacturers of glucose that the article can only be supplied upon conditions. It was mentioned in the *C. & D.*, May 26, p. 48, that glucose is only allowed to be sold for the manufacture of jams and pharmaceutical preparations, but since then the list of permitted uses has been extended as follows:

(1) Jam preserving (wholesale and retail).
(2) Medicinal purposes.
(3) Caramels and sweet manufacture.
(4) Mineral waters.
(5) Grocers—for mixture with syrup or jam.
(6) Bakers and pastrycooks.

The glucose sold by manufacturers is not allowed to be employed in brewing. The restrictions referred to include both liquid and solid glucose. In regard to the question of an order restricting the uses of glucose the reply to our inquiries is that no order has been issued by the Food Controller, but that the supply of glucose is being regulated very much in the same way that glycerin was controlled. Glucose is made from maize starch and sulphuric acid, and the Maize, Barley, and Oats (Restriction) Order regulates the uses to which maize may be put. It can only be employed for use in human food unless with the consent of the Ministry of Food. The Government also controls the supply of sulphuric acid, and in allowing the manufacturers of glucose to obtain maize and sulphuric acid can impose any restriction considered desirable in the national interests. This is how the conditions as to the uses of glucose can be enforced. It should be added that the number of manufacturers of glucose in this country is small, and that the control of the position is even less difficult than it was in the case of glycerin. We may here recall that in our issue of March 24, p. 42, referring to the difficulty of obtaining sugar, we mentioned that the legal requirements of the Pharmacy Acts, Sale of Food and Drugs Acts, Merchandise Marks Acts, etc., stood in the way of any modification by chemists of the formulæ of official pharmaceutical preparations in which sugar is employed. We made a suggestion that glucose might be used in some of these preparations if regulations were made under the Defence of the Realm Act protecting pharmacists from the legal consequences to which they would be subjected if official formulæ were modified. It is interesting to note that our suggestion has been taken into consideration, and that the General Medical Council has been consulted in the matter. As mentioned last week (p. 34), the Pharmacopœia Committee of the General Medical Council has been entrusted with power to take any steps which may be necessary for the purpose of modifying formulæ of the Pharmacopœia which contain sugar or glycerin. The charge of slowness in taking action must, however, be made against the officials concerned, and it is to be hoped that further delay will be avoided. At present there is a brisk demand from the public for glucose for jam-making, for which purpose supplies are obtainable from the makers. Chemists should see that this business is not allowed to drift entirely into the grocers' hands, especially as the handling of the convenient-sized packages in which liquid glucose is supplied is so easy. The numerous inquiries which we have received regarding the use of glucose in jam-making show that many chemists are alive to the possibilities of business in the article. The hint that there is a rising market in glucose should not be lost to those whose stock is running short.

New Use for Sodium Sulphocarbonate.

PROFESSOR MAXWELL LEFROY, of the Imperial College of Science and Technology, whose vigorous campaign against the fly nuisance has drawn attention to the best methods of attacking the problem, is recommending sodium sulphocarbonate for disinfecting manure-heaps. This salt is obtainable in the form of a 40-per-cent. solution. For use it is diluted one part in forty of water, and in this strength distributed over manure-heaps by means of a watering-can. In the presence of weak acids, which are found in the soil or in manure, sodium sulphocarbonate readily decomposes into carbon bisulphide and sulphuretted hydrogen, which act as deadly poisons to maggots and most insects, but do not diminish the value of the manure. The sulphocarbonates are not familiar to some of our correspondents who desire to carry out Professor Lefroy's suggestions. The sulphocarbonates, or thiocarbonates, are compounds analogous to the carbonates, and carbon bisulphide is sometimes called sulphocarbonic or thiocarbonic anhydride. Berzelius discovered that if carbon bisulphide is brought into contact with a solution of the sulphide of an alkali-metal, a sulphocarbonate is formed—thus:

$$CS_2 + Na_2S = Na_2CS_3$$

—and he pointed out the analogy which this reaction shows to the carbonates ($CO_2 + Na_2O = Na_2CO_3$). It should be added, however, that as a by-product in the distillation of coal-tar the sulphocarbonates of commercial quality are comparatively inexpensive. Thiocarbonic or sulphocarbonic acid can be made from sodium thiocarbonate by the addition of cold dilute hydrochloric acid, and is a yellow oil of disagreeable penetrating odour. Potassium sulphocarbonate was recommended some years ago for the purpose of destroying the phylloxera insect which infests vines, so that Professor Lefroy's suggestion is an interesting revival of the older use of sulphocarbonate, whilst it has the advantage of being remarkably efficient for the new uses to which it is to be put.

Growing Medicinal Plants.

THE "Lancet" (I., 1917, p. 849) contains a paper by "a drug-grower" on the cultivation of medicinal plants. The following are useful points noted in the article:

Aconite.—Its cultivation has probably never paid in England, and at the present time it is possible to secure an ample supply at prices not greatly in excess of the pre-war figure, large quantities having been imported from Spain.

Dandelion (*Taraxacum*) cannot possibly pay to cultivate, nor is it necessary to do so, as it is so common a weed. The grubbing of the root is a toilsome and dirty occupation, unsuited for the usual amateur herb-collector. While the greater part of the supply of dandelion-root is used for non-official purposes, there has been ample available for the preparation of the official extract and juice. Last autumn one firm alone received from the collectors 5 to 10 tons a week.

Couch Grass (*Agropyrum*) is present in quantities in most arable fields, and large quantities are readily available if required. The amount used in medicine is trivial.

Male Fern (*Filix-Mas*).—With this a curious difficulty has arisen. Manufacturers using English root have found themselves unable to produce an extract containing the proper proportion of filicin; the B.P. requires not less than 20 per cent. Possibly the English root does not contain as much of this principle as the Continental owing to climatic conditions, or the root may have been gathered at the wrong season of the year. At a recent drug-sale more than twenty bales of this root were offered, but found no bidder.

Chamomile and Valerian.—Before the war the supplies came mainly from Belgium, and these will presumably be again available later. In the meantime, recourse has been taken to the Japanese product from a different species, stronger than the European variety, and to an Indian species which is also official.

It is suggested that from a business point of view a safer outlet for the energies of the amateur drug-producer is in the collection of wild plants, remembering that for the most part these are used by herbalists. The risks which amateur drug-growers run are mentioned, the writer being far from optimistic regarding the prospects of success for the small grower.

THE ANNUAL CONFERENCE of the South-Eastern Union of Scientific Societies is taking place in London this week.

A MYSTERIOUS PARAGRAPH in "Reynolds's Newspaper" on June 3 referred to a "leading West-end chemist" who, it was asserted, has been supplying "drugged sweets."

A MIXTURE of steam and ether is employed as an anæsthetic agent by Dr. Beresford Kingsford at the University College Hospital and Military Orthopædic Hospital. The temperature of the ether when inhaled is between 85° and 95° F.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held on June 6 at 16 Bloomsbury Square, London, W.C. The members present were Mr. E. White (in the chair), Mr. E. T. Neathercoat (in the vice-chair), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, W. H. Gibson, R. L. Gifford, T. Guthrie, A. Hagon, J. F. Harrington, F. G. Hines, A. H. Jenkin, J. Keall, L M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young.

ELECTION OF OFFICERS.

The first important business was the election of a President, Vice-President, and Treasurer for the ensuing year.

Voting-papers for the President had been distributed to the members, and were collected by Mr. Woolcock (Secretary and Registrar) in the familiar mahogany ballot-box, each member tapping the top of it as he dropped in his paper. Mr. Woolcock then called out the names recorded. There were twenty-one papers. Of these fifteen contained the name of Mr. E. White, one recorded a vote for Mr. Hines, and five were blank.

Mr. WHITE, declaring himself elected President, thanked the Council for the renewal of their confidence, and expressed the hope that they would work together in the coming year as they had done during the four years he had occupied the position of President. It was a matter of great regret to him personally, he said, that he should be holding the office during these troublous times, and he hoped that peace would eventuate early in his term of office.

The Secretary then invested the President with the chain of office, amid the applause of the Council.

For the election of Vice-President exactly the same procedure was followed as in the case of that of the President. Again twenty-one papers were returned, fourteen recording the name of Mr. Neathercoat (the former Vice-President), two containing that of Mr. Campkin, one that of Mr. Hines, and three of them being blank. Mr. Neathercoat was accordingly elected to the vice-chair.

The PRESIDENT assured Mr. Neathercoat that he would be glad to have his help and support in the coming year as in the past.

Mr. NEATHERCOAT, in acknowledging his re-election, remarked that he regarded it as a great compliment that the Council should have elected so young a man as himself for the position for the fourth time in succession. He had endeavoured to carry out the duties of the office to the best of his ability, and, if there were occasions when it appeared he had failed, it had not been from lack of good will or intention to do the right thing.

For the post of Treasurer Mr. W. H. Gibson had nineteen votes in his favour. One paper recorded the name of Mr. Hines and one was blank.

Mr. W. H. GIBSON thanked the Committee for having elected him to the position for the eighth time in succession, and remarked that this honour indicated that in the past he had succeeded in giving some satisfaction to members of the Council and of the Society.

WELCOME TO NEW MEMBERS.

The PRESIDENT then said it was his pleasant duty to extend a hearty welcome to Messrs. Hines and Jenkin, who attended the meeting for the first time as members of the Council. He assured them that the members would meet them more than half-way in their efforts to render assistance.

Mr. HINES briefly acknowledged the kindly reception accorded him.

Mr. JENKIN said that he joined the Council somewhat as an idealist. He desired to keep in mind all the time that this was the Pharmaceutical Society of Great Britain, and that the Society's objects are larger and more important than those of any other similar Society within the Empire. He would endeavour to do his duty to the Council, and in doing so to receive as much as, and more than, he was able to give.

RETIREMENT OF MR. JOHN HARRISON.

The PRESIDENT said he was but expressing the feelings of the Council when he suggested that they should record in some formal way their appreciation of the services Mr. John Harrison had rendered pharmacy during the twenty-eight years he had been a member of the Council. He therefore moved—

"That on the retirement of Mr. John Harrison, of Sunderland, after twenty-eight years of faithful service on the Council of the Society, during which he filled with conspicuous ability the office of Vice-President for three years, the Council desires to record its high sense of the work for the Society and for pharmacy which Mr. Harrison has given for the benefit of his fellow-craftsmen. His former colleagues desire to express the wish that he may long be spared to enjoy his retirement, and that he will accept the assurance of their grateful recollection and affectionate regard."

The VICE-PRESIDENT seconded the resolution, which was passed unanimously.

MR. L. M. PARRY'S RETURN.

The PRESIDENT welcomed Mr. L. M. Parry back to the Council after an absence of over three months owing to serious illness. It was the sincere hope of them all that he returned to the Council in improved health, and, if possible, in a better mind. (Laughter.)

Mr. PARRY thanked the President and Councillors for their welcome. Most of them had written him during his serious illness, and their letters would help him to be more appreciative of the kindly feelings they had towards him, and of the value of their friendship, than he had ever been before.

KING'S BIRTHDAY HONOURS LIST.

The PRESIDENT here mentioned that in the King's Birthday Honours List occurred the names of two gentlemen connected with pharmacy—Colonel Harrison, a former member of the Board of Examiners, and Professor Crossley, formerly Lecturer on Chemistry in the Society's school. These gentlemen had been honoured by the King in having the dignity of C.M.G. conferred upon them in recognition of the valuable services they have rendered in connection with the war.

DEATHS.

The PRESIDENT next referred to the death of Mr. Peter MacEwan, Editor of THE CHEMIST AND DRUGGIST, which took place on the morning of the annual meeting of the Society, at which they were all more than saddened on hearing of its announcement. It was unnecessary for him to add anything more to what had been said further than to express how much they regretted Mr. MacEwan's decease and how much pharmacy had lost by it. (Hear, hear.) Throughout the country and beyond he was acknowledged by all as a man of outstanding and distinguished ability, and the statement could be made, without any fear of exaggeration, that he was one of their most distinguished members, whose loss the Society and all it represented felt very seriously. The other event to which he desired to refer was the death of Mr. W. J. Sanderson, one of the best-known Scottish members, at the age of sixty. He was a Divisional Secretary, Secretary of the Pharmaceutical Committee, and he was also Association Secretary for the county of Peebles.

QUESTIONS AND ANSWERS.

The PRESIDENT then read the following question which had been put by Mr. Rowsell:

"It is stated that Sir E. Cornwall is considering the advisability of the appointment of a Committee of Medical Men to act in an advisory capacity to the National Health Insurance Commissioners. What steps have been, or are being, taken to bring about a similar Committee of Pharmacists?"

The answer was—

"No steps have been taken in the direction suggested. There are pharmacists who are members of the Joint Advisory Committee and one medical man, but whilst the present Committee is undoubtedly so constituted as to be able to deal efficiently with the cash benefits administered by Approved Societies, it is clearly not so competent to deal with the Medical and Sanatorium Benefits administered by Insurance Committees. It may be well to suggest the appointment of a separate Advisory Committee for dealing with these latter benefits upon which Insurance Committees, medical men, and pharmacists should receive appropriate representation."

Mr. ROWSELL said he was very glad to receive the answer. It was thought that the Advisory Committee which had been so recently set up, and which consisted of thirty members, was not fully representative of the Insurance Committees and of pharmacists and medical men. He suggested that the Council should send a representation that pharmacy should have a due and proper representation on the Advisory Committee.

It was agreed that Mr. Rowsell's suggestion should be referred to the Committee.

The PRESIDENT also mentioned that a question put by Mr. Rowsell relative to the supply of sugar for use in pharmacy would be reported upon at the close of the public business, when the information required would be given.

OFFICERS REAPPOINTED.

On the proposition of the PRESIDENT, seconded by the VICE-PRESIDENT, the following officers were reappointed for the ensuing year: Secretary and Registrar, Mr. W. J. Uglow Woolcock: Assistant Secretary, Mr. A. J. Chater; Deputy-Registrar, Mr. H. Moon; Parliamentary Secretary,

Mr. W. S. Glyn-Jones; Editor, Mr. J. P. Gilmour; Curator, Mr. E. M. Holmes; Resident Secretary in Scotland, Mr. J. Rutherford Hill.

The Standing Orders were adopted.

ELECTIONS AND RESTORATIONS.

The Council then elected nine members and twelve student associates, and 134 persons were restored to membership. Two names were restored to the Register of Chemists and Druggists.

The Secretary reported on the registrations of apprentice or student, but did not state the number.

CORRESPONDENCE.

The University of London forwarded a copy of a revised scheme for school examinations, and asked the Society to extend recognition to the Senior and Junior School examinations under the revised scheme. The communication is to be sent to the Board of Examiners.

The Northumberland Pharmaceutical Committee urged the formation by the Society of local centres for the study by pharmacists of bacteriology on the lines of the lectures delivered in London. The House Committee is to deal with this.

The Derbyshire Pharmaceutical Committee made suggestions regarding the Society's organisation. This and a letter from the Plymouth Pharmacists' Association are to be dealt with by the Sub-Committee on Organisation.

The British Pharmaceutical Conference received permission to hold its annual meeting in the lecture-theatre of 17 Bloomsbury Square, London, on July 11. Delegates were also appointed as follows: Messrs. Jenkin, Harrington, Skinner, Cuff, Rowsell, Sergeant, Gifford, Parry, and Keall, and the Secretary

The Privy Council thanked the Society for action taken in a legal case.

FINANCE COMMITTEE.

The Secretary read the report of the meeting of the acting Finance Committee held on the previous day. The receipts of the General Fund since the last meeting were 1,123*l.* 7*s.*, made up as follows: Penalties and costs, 118*l.* 4*s.* 2*d.*; "Journal," 98*l.* 15*s.* 7*d.*; rent and ground-rent, 146*l.* 5*s.*; subscriptions, 400*l.*; registration-fees, 79*l.* 16*s.*; restoration-fees, 2*l.* 2*s.*; certificates of qualification, 10*l.*; lecture-fees, 126*l.*; "Chemists' Annual," 73*l.* 14*s.* 2*d.*; school-fees, 8*l.* 8*s.*; and sale of paper, 60*l.* 1*s.* 1*d.* After deducting the payments ordered at last meeting, there remained a balance of 856*l.* 15*s.* 7*d.* Items amounting to 1,679*l.* 10*s.* 8*d.* were recommended for payment. The balances on the Benevolent Fund were: Current account, 1,027*l.* 17*s.* 10*d.*; donation account, 460*l.* 5*s.* 11*d.*; Orphan Fund, 106*l.* 3*s.* 3*d.*

The TREASURER, in moving the adoption of the report, referred to the money received as fees in respect to the bacteriological lectures. So far as the Benevolent Fund was concerned, the donation account included an item of 100*l.*, a legacy from the late Mr. Charles Umney; 400*l.* of the sum in hand has been placed on deposit in the London County and Westminster Bank.

The PRESIDENT explained that the last item of receipts in the General Fund (sale of paper) had relation to the figure for the "Annual" to which he referred at the annual meeting when he said that on certain outlays they would be able to effect a bigger economy.

The report was adopted.

BENEVOLENT FUND.

The report of the acting Benevolent Fund Committee, which met on the previous day, was read by the Secretary. This recommended grants to seven applicants amounting in the aggregate to 100*l.* Acknowledgment was made of various donations from local Associations.

Mr. HINES inquired whether, arising from the war, there had been any special claims on the Orphan Fund.

Mr. BILSON replied that a communication had been sent to every Association, stating that the Council is prepared to deal with any case that may arise, but so far no special claim has been brought forward.

The report was adopted.

LIBRARY COMMITTEE.

The report of the acting Library, Museum, School, and House Committee was next read. It was mentioned that Mr. R. W. Bowles, a former demonstrator in the school, has been discharged from the Army, and it has been arranged that he shall resume his work in the laboratory. An account for 34*l.* 14*s.* for fitting up the biological laboratory was approved and passed to the Finance Committee. A letter had been received from the Board of Education with regard to secondary schools and the examination of scholars attending them who desired to study in pharmacy. It was decided to communicate with other Societies similar to their own, with a view of obtaining co-operation for a joint and effective scheme of examinations.

The PRESIDENT, referring to this proposal, said it is rather a good one, because it offers the prospect of a standardisation of preliminary examinations under the Board of Education, and would lead to a simplification of the preparatory examination in connection with their own and similar professional Societies. The attendance at the lectures has been well maintained.

The report was adopted.

GENERAL PURPOSES COMMITTEE.

The report of the Parliamentary and General Purposes Committee was then taken. The only feature of importance related to the Venereal Disease Bill. The Parliamentary Secretary reported that as a result of the steps taken by him on the instructions of the Committee, the clause in the Bill, as it left the House of Lords, which would have made it illegal "to sell as a remedy for these diseases," except under circumstances almost impossible to define, had been abandoned, and its place taken by a clause preventing the holding-out or recommending in writing or print of any medicine for the prevention, cure, or relief of these diseases. Between the Committee and the Report stage the Minister in charge of the Bill was interviewed, and he agreed himself to move an amendment postponing the operation of this particular clause until November 1, 1917. On the third reading stage opportunity of fully explaining the attitude of pharmacists in regard to the Bill was taken, and is now on record in the official debates. Pharmacists would be able to say whether the labels or literature used in connection with these diseases are legal or not by asking themselves whether these labels or literature would have rendered the articles liable to stamp-duty, assuming that the exemptions as to well-known and approved remedies and entire drugs did not exist. If the use of the labels or literature would render the articles liable to stamp-duty, it would be illegal in future to use them at all in connection with these diseases. The sending of the Bill to Grand Committee enabled pharmacists to concentrate upon the comparatively few members who were dealing with the Bill, and the speeches made in Grand Committee show that the members are fully informed of the pharmaceutical point of view. The objections taken by the Government to the amendment, which would have prevented doctors from dispensing for these ailments, were two:

1. That the Bill dealing with these specific diseases is not the appropriate place for settling by law the relationship between doctor and pharmacist.
2. That the nature of the particular diseases rendered them unsuitable for selection from other diseases for applying the rule that the patient's condition must be revealed to two persons—namely, doctor and dispenser.

It was not because the Committee were not well versed in the Society's case, but it was in consequence of their acceptance of the foregoing reasons given by the Government that this particular amendment moved by the Parliamentary Secretary was not carried. Mr. Glyn-Jones intimated that many of the members stated that they would certainly support the principles that pharmacists were contending for when the question arose, as they thought it must once a Ministry of Health was established.

The PRESIDENT, in moving the adoption of the report, said a point raised by Mr. Skinner relative to the Society's financial policy had been considered, but no action was taken.

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of this Committee, which formed part of the above report, stated that it had been resolved, in regard to the publication of the balance-sheet, that this is not necessary, having regard to the fact that a Special Finance Sub-Committee has been dealing with the finances of the Executive Committee and the Checking Bureau, and that a final balance-sheet dealing with the accounts for the period ending February 1917 had been submitted to the Executive Committee. A communication from the London Pharmaceutical Committee regarding the copying of Insurance prescriptions had been referred to the Tariff Investigation Sub-Committee.

The report was adopted.

It was left to the President to select a person to deliver the inaugural sessional address in October.

This concluded the public business.

ZOL.—A fire broke out on June 5 on the premises of Zol, Ltd., 106 Church Street, Kensington, London, W. Although considerable damage was done, the managing director (Mr. P. Barrs) informs us that orders will be executed with the same promptitude as formerly.

Association Affairs.

Belfast.—For some time the chemists' assistants of Belfast have been building up a branch of the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks. The movement resulted in a special meeting held in the Vintners' Hall on May 30, at which Mr. Wm. Carr, Ph.C., presided. Mr. Alex. Hynds addressed the meeting on behalf of the Union, urging the necessity of combination with a view to the improvement of the position of chemists' assistants. Branch officers were elected and a number of new members enrolled. It was resolved to meet weekly at the same time and place, and the Committee was instructed to arrange a scheme of reforms for submission to the members.

Birmingham.—The Council of the Birmingham Pharmaceutical Association met on June 1, and resolved to recognise officially the Birmingham Chemists' Field Ambulance (Volunteer), suggesting that that body should be attached to the Royal Warwickshire (Volunteer) Regiment. It was reported that the Sailors' and Soldiers' Entertainment Fund (now closed) had realised a total of 41*l.* 9*s.* 10*d.* The Secretary stated that arrangements had been made for the dispensing by chemists of school clinics' prescriptions at the same rates as for hospital out-patients' dispensing. Up to the present 41*l.* 19*s.* 6*d.* has been contributed through the Association to the Pharmaceutical Society's Parliamentary Representation Fund.

Bournemouth.—The Association met at Gervis Hall on June 1, Mr T. Boyle (President) in the chair. A vote of condolence was passed with the relatives of the late Mr. Hayhoe. Mr. Bilson was congratulated on his re-election to the Pharmaceutical Council, and thanked the members for their support. It was resolved "that every effort be made to discourage unnecessary Sunday trading, and that members be asked not to pull up blinds or leave doors standing open on Sunday." The Secretary was directed to write again to the Bournemouth Medical Society and the Panel Committee with regard to supplies of glycerin and sugar. The collection for the Benevolent Fund realised 30*s.*

Chemists' and Druggists' Society of Ireland.—A special meeting of the Committee was held in the Society's rooms, Waring Street, Belfast, on May 31, Mr. W. J. Rankin (President) in the chair, when Mr. S. Gibson, J.P., referred in feeling terms, and with much emotion, to the death of Mr. Peter MacEwan, and moved—

"That the Committee of the Chemists' and Druggists' Society of Ireland desire to place on record their deep regret at the death of Mr. Peter MacEwan, who has so many years ably conducted the editorial department of THE CHEMIST AND DRUGGIST. Nowhere will his loss be more felt than in Ireland, as his mature advice was always at the command of our members. To those of us who came in contact with him from time to time in London on Parliamentary work, his loss will be keenly felt. When applied to for advice in any subject connected with the pharmacy or drug trade, his views were always considered final. He always took a clear, broad view of all matters pertaining to the trade. We desire that this expression of our sincere regret be sent to the members of his family and the publishers of THE CHEMIST AND DRUGGIST."

Mr. S. Suffern and the President sympathetically echoed Mr. Gibson's remarks and the terms of the resolution, which was unanimously carried, the members rising to their feet.

Essex.—The Committee of the County Association met on June 5, when the Secretary reported on his negotiations with the Board of Agriculture regarding the price of copper sulphate, and was directed to pursue the matter further. Messrs. J. H. Matthews and C. Goode were appointed delegates to the July meeting of the British Pharmaceutical Conference.

Institute of Ophthalmic Opticians.—The Council met on May 17 at the Holborn Restaurant, Mr. A. Upson in the chair. The minutes having been read, a ballot was taken for the chairmanship for the ensuing year. This resulted in a tie between Mr. Upson and Mr. Dadd, upon which the former gracefully retired in favour of Mr. Dadd, who thanked the Council for his election. Mr. Comer was elected Vice-Chairman, Mr. Boatman Treasurer, and Mr. J. Harcombe Cuff Secretary and Editor. Standing Committees were appointed. A long discussion took place on the South African Medical and Pharmacy Bill as affecting the rights of opticians, and it was decided to send to the Cape authorities and to General Smuts a protest against the clauses restricting treatment of optical defects to medical practitioners. The District Secretaries were then reappointed, and the Secretary reported on the Institute's Industrial Sight-testing Scheme.

Newport (Mon.).—The Newport Pharmacists' Association met at the Shaftesbury Hotel on May 30, when Dr. H. R. Burpitt (school medical officer) gave an address on the *Health and Care of School-children.* This comprised a brief historical survey of the movement for the medical inspection of elementary-school children and an outline of the method in which the work is done locally. A discussion followed on matters of mutual interest to doctors and pharmacists. Mr. Benson Harries (President), in proposing a vote of thanks to the lecturer, advocated a closer understanding between the medical and pharmaceutical professions in the interest of the public service. Other speakers concurred, and Dr. Burpitt expressed his gratification at the interest taken in his address.

Salford.—The annual meeting of the Pharmacists' Association was held on May 17, Mr. H. Thompson (President) in the chair. The Treasurer's report was adopted. A new by-law was passed enabling firms to nominate a qualified member of their staff as their representative. The newly elected Council comprises Messrs. Bellringer, Cuttiford, Davison, Gill, Harrop, Jones, Simmons, Stout, and Thompson. Mr. W. F. Cuttiford was elected *President*, Mr. J. L. Davison *Secretary*, and Mr. Harrop *Treasurer*. Thanks were voted to the officers for their services during the past year.

Staffordshire.—The annual meeting of the Staffordshire Pharmacists' Association was held at the Swan Hotel, Stafford, on May 31, when the election of officers resulted as follows: *President*, Mr. Weston Poole (Newcastle); *Vice-President*, Mr. A. S. Price; *Treasurer*, Mr. E. M. Mellor (Uttoxeter); *Hon. Secretary*, Mr. W. F. Fowke. The Committee were re-elected *en bloc*. Mr. Woolcock, Registrar of the Pharmaceutical Society, then addressed the meeting on *Organisation*. He argued that only by proper local organisation and co-operation with the central body could any benefits be secured by chemists, and instanced the effect of the National Insurance Act, claiming for the Society the credit of the increased establishment-charge and advantages gained in the revision of the Tariff. Education, the curriculum, and division of the Minor examination were dealt with, and the speaker assured his hearers that the further organisation of pharmacists was receiving constant attention at Bloomsbury Square. A discussion followed, and Mr. Woolcock was thanked for his address.

West Bromwich.—The Pharmaceutical Association met at Mr. Withers' house on May 31, Mr. Hampton (Vice-President) in the chair, when Mr. Lock read a paper in reply to that of Mr. Barnes (*C. & D.*, March 10, p. 90). Mr. Lock thought the pharmaceutical outlook did not justify Mr. Barnes's optimism. He considered Insurance dispensing to be inadequately paid for, and scoffed at the *quasi*-professional state of the present-day pharmacist. He favoured an aggressive policy in dealing with the Insurance Commissioners, and regarded the suggested formation of dispensing depôts as simply a nightmare. Mr. Lock did not think the Pharmaceutical Society should have any business department attached to it, as such a union would not work. He looked upon the P.A.T.A. and U.C.A.L. as destructive Associations, only suitable for pharmacists without ideas of their own. As against Mr. Barnes's plea for co-operation, Mr. Lock advocated individualism, suggesting that progress through co-operation is too slow. Mr. Barnes replied in defence of co-operation, and the thanks of the meeting were accorded to Mr. Lock. A vote of condolence with the relatives of the late Mr. Peter MacEwan was carried

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—At a meeting of the Pharmaceutical Committee, held on June 1, it was decided to consult the wishes of panel chemists as to whether the present Committee should remain in office for another year, or whether an election should take place. A panel meeting to decide this will be held at the Imperial Hotel, Temple Street, on June 12, and any other subjects connected with Insurance dispensing may be introduced for discussion.

Bournemouth.—The Clerk's report to the Insurance Committee shows that the prescriptions dispensed in 1916 numbered 67,462, at a total cost of 1,806*l.* 14*s.* 11*d.* (ingredients, 985*l.* 5*s.*; dispensing-fees, 820*l.* 9*s.* 11*d.*). The average cost per prescription was 6.4*d.*, as against 7.48*d.* in 1915.

Essex.—The Pharmaceutical Committee met on June 5, when it was agreed to pay the additional 0.3*d.* per prescription for 1916. Temporary residents' scripts for 1915 are also to be paid for, leaving a small balance for division among the panel chemists for that year in addition to the 94.55 per cent. already paid. The Pricing Bureau's circular dealing with incomplete prescriptions was considered, and it was decided to recommend that such prescriptions be returned to the chemists and no payment made until adequate details are initialled by the doctor. The Insurance Committee's accounts for 1916 were agreed to. It was decided to adopt the recommendation of the Commissioners that the Committee continue in office for another year. The Central Checking Bureau's figures for January were adopted.

Middlesex.—The Insurance Committee met at the Guildhall, Westminster, on June 4, Mr. W. S. Glyn-Jones presiding. The Pharmaceutical Service Sub-Committee reported a complaint against a chemist who refused to use a dirty bottle brought to him by a panel patient and charged 2*d.* for a clean one, but the complaint was dismissed. A more serious complaint was against a company who, owing to pressure of dispensing-work, declined to make up a prescription at 8.15 P.M. on a Sunday. The company is to be warned against a repetition of such a breach of its agreement. Payments were authorised of 4,844*l.* 17*s.* 2*d.* to chemists, 343*l.* 19*s.* to medical practitioners (capitation drugs), and 86*l.* to the Pharmaceutical Committee for administration expenses.

Portsmouth.—The Insurance Committee met on May 31, when a letter was read from the Insurance Commissioners accepting the calculations of the Joint Pricing Committee under the Article 5 Tariff as applying to the whole of 1916. Mr. Hollis (Chairman of the Finance Committee) said chemists would now be paid under one system and have no part in the "floating sixpence." The Finance Committee's report included correspondence with the Commissioners and the Joint Pricing Committee as to the delay of some chemists in sending in their accounts, and suggesting the recovery from such delinquents of any expenses incurred through their negligence. The prescriptions dispensed in March numbered 11,246, at a total cost of 295*l.* 1*s.* 5*d.* and an average of 6.20*d.* per script. The Committee confirmed the advance payments made to chemists for that month, and ordered balancing payments to be made. The sum of 30*l.* was granted to the Pharmaceutical Committee for administrative purposes.

Sheffield.—A meeting of the Insurance Committee was held on June 6 at the Town Hall. The Clerk reported that he had obtained from Approved Societies and the rating authorities figures showing an increase in the population and insured persons for 1916, whereas the credit was less than allowed by the Commissioners for 1914 and 1915. It was decided to send a deputation to London. The National Association of Insurance Committees wrote asking the Committee to continue to pay representatives' expenses on the basis laid down by them, but the Committee resolved to pay according to the reduced scale laid down by the Commissioners. It was agreed to grant a war-bonus of 2*s.* per week on the revised scales of wages to the female staff, and 10 per cent. on the salary of the Chief Clerk. It was decided that only 65 per cent. be paid to institutions who are treating their insured staff, as the extra 12*l.* per 1,000 persons for drugs can only be paid to doctors and chemists. Payment was ordered of the balance of chemists' accounts for March, and on account for April, 936*l.* 16*s.* 8*d.*

SCOTLAND.

Dundee.—Cheques were handed to panel chemists on May 31 to cover a further payment towards February accounts and an instalment of 6*d.* for each prescription dispensed in April. A number of chemists were at the same time notified that certain medicines dispensed between September and December 1916 have been disallowed. This means that they will not be paid for, and the intimation has caused some indignation. It is considered unbusiness-like to challenge items in a monthly account from six to ten months after being rendered; further, it is unfair to penalise chemists because doctors have not observed the instructions of the Insurance Committee. [Two cases which have been brought to our notice concerned Listerine and Nepenthe.—ED.]

WALES.

Denbighshire.—The number of prescriptions dispensed during the first three months of 1917 was 20,549, at a cost of 508*l.* 0*s.* 1*d.*, as compared with a total of 19,573, valued at 430*l.* 13*s.* 2*d.*, for the corresponding quarter of 1916. In January last scripts numbered 6,455; in February, 6,991; in March, 7,103.

Personalities.

MR. E. D. JONES, pharmacist, Llangollen, Clerk to the Denbighshire Insurance Committee, has been elected Chairman of the Corwen Union Board of Guardians.

IT IS PROPOSED to present portraits of the late Professor Raphael Meldola to the Royal Society and to the Institute of Chemistry. Subscriptions are being received by Professor E. B. Poulton, Wykeham House, Oxford. The portraits are to be painted by Mr. Solomon J. Solomon, R.A.

MISS MARY JANE BARNES, who has for many years been in charge of the kitchen staff in connection with the large catering department at the Wellcome Chemical Works, Dartford, has been presented with a gold watch by the firm to commemorate the completion of twenty-one years' service.

MR. W. H. SAUNDERS (chairman of Ayrton, Saunders & Co., Ltd., Liverpool) has been elected President of the Liverpool Library, which, having been established in 1758, claims to be the oldest institution of its kind in the kingdom. Mr. W. H. Saunders is also Chairman of Clint Road Council School, Vice-President of the Philomathic Society (established 1824), Hon. Secretary of the Liverpool Trade Protection Society, and Joint Treasurer of the Liverpool War Dressings Association.

MR. FRANK G. RYAN, president of Parke, Davis & Co., Detroit, U.S.A., has enlisted in the United States Army, and has been detailed on the Council of Defence, a body organised for the purpose of mobilising the industries of the country, and to provide ways and means for supplying the Army and Navy with all of their wants. This body has very comprehensive powers, and has gone to work in a systematic manner with tremendous energy. Mr. Ryan is Secretary of the Committee having the pharmaceutical and chemical section of the work specially in charge.

Ambrine Imitations.

AMBRINE, a paraffin-wax preparation, prepared from a formula of a French medical man, Dr. Barthe de Sandfort, has been referred to on several occasions in our columns. It is employed in what is known as the paraffin-film treatment of burns, which consists in spraying the melted wax on to the burn, and so keeping out bacterial infection. Ambrine consists chiefly of paraffin wax of m.p. 48.6° C., and contains in addition small quantities of fatty oil, an asphalt-like body, and colouring-matter. The makers are quite frank in regard to the main constituent of the preparation. There have been published, however, several formulæ which profess to improve on the original preparation, and as these are in demand in various parts of the country we have brought the formulæ together so that chemists may have a record of the different suggestions:

"No. 7 Paraffin."
(Lieut.-Colonel A. J. Hull.)

Resorcin	1 part
Eucalyptus oil ...	2 parts
Olive oil	5 ,,
Soft paraffin	25 ,,
Hard paraffin	67 ,,

Melt the hard paraffin and add the soft paraffin and olive oil. Dissolve the resorcin in absolute alcohol (it is soluble 2 in 1), add to the melted paraffins, and lastly add the eucalyptus oil when the wax has cooled to about 55° C.

"No. 7 Paraffin" Modified.

Beta-naphthol ...	0.25 part
Eucalyptus oil ...	2.0 parts
Olive oil	5.0 ,,
Soft paraffin ...	25.0 ,,
Hard paraffin ...	67.75 ,,

Russian Formula.
(Surgeon-General Eugene Hurd.)

Resin	1 part
Beeswax	1 ,,
Paraffin wax	4 parts

Melt in a dish set in boiling water for half an hour.

Asphalt-Paraffin No. 21.
(American formula.)

Paraffin wax (m.p. 47.2° C. by U.S.P. method)	97.5 grams
Asphalt	from 3 to 5 drops
Olive oil	1.5 c.c.

The asphalt is obtained by evaporating 10 c.c. of asphalt varnish on a steam-bath for half an hour. From three to five drops of the product is placed in a casserole with the olive oil, and stirred to effect complete solution. To this is then added, with stirring, the paraffin, previously melted.

THE LEADING SPIRIT in a local revolution that has occurred at Kronstadt, Russia, is stated to be a youthful chemistry student, named Lamanoff, from the Petrograd Technological College. He is described as a smooth-faced, dark-haired, soft-eyed man of magnetic, voluble speech. It is stated that as dictator he has already arrested several men who were intoxicated with methylated spirit.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, June 7, 5.30 p.m.

There is a better tone about the chemical and drug markets this week, and, as is usually the case when markets are advancing, buying becomes more general. The outstanding feature is a sharp advance in salicylic acid, which is 1*s.* to 1*s.* 6*d.* dearer, this being due to a much improved demand and scarcity for prompt delivery. Sodium salicylate is similarly affected, but to a less extent. Aspirin is firm and in upward tendency. Caffeine continues very scarce; strychnine is 2*d.* per oz. higher. Resorcin is lower. Milk-sugar is firmer; tartaric acid and menthol easier. Among drugs, Persian opium is firmer. Balsam Peru, copaiba, and tolu are all scarce, the first-named being much dearer. Serpentary and jalap have advanced. In essential oils, lemon is dearer in Sicily; bergamot and orange are firm. Sassafras and caraway oils are higher.

Higher	Firmer	Easier	Lower
Aloes (Cape)	Cascara sagrada	Camphor monobrom.	Honey
Balsam Peru	Gurjun oil	Ipecacuanha (Matto Grosso)	Resorcin
Benzoin (Sumatra)	Kola	Menthol	Tartaric acid
Caraway oil	Milk-sugar	Senna (Tinn.)	
Cardamoms	Opium (Persian)		
Celery-seed	Peppermint oil, H.G.H. (to arr.)		
Lemon oil	Terpineol		
Salicylates			
Sassafras oil (Amer.)			
Serpentary			
Strychnine			
Tamarinds (W.I.)			
Wax, bees'			

The next drug-auction will be held on June 28 (three weeks hence).

Cablegram.

New York, June 7.—Business in drugs is fair. Guarana is dearer at $1.00 per lb., and elecampane-root is firmer at 3½c. Jalap has advanced to 12c. and cascara sagrada to 12c. per lb. Oregon fir-balsam has been reduced to 90c. per Amer. gal.

Acetanilide.—Prices vary from 3*s.* to 3*s.* 6*d.* per lb. for spot delivery according to holder and quantity.

Amidol is offered at 26*s.* 6*d.* per lb. net for spot delivery.

Amidopyrin to arrive is offered at 63*s.* per lb. net.

Aniseed is still unobtainable.

Aspirin of B.P. quality for spot delivery is offered at from 14*s.* to 14*s.* 6*d.* per lb. net according to quantity.

Balsams.—*Peru* is much dearer, 17*s.* net being asked for genuine on the spot, following on an advance in the U.S.A. B.P. *Copaiba* continues scarce at 5*s.* per lb., filtered Para in cases is 3*s.* 6*d.*, and unfiltered Maranham in casks is 5*s.* 2*d.* on spot. *Tolu* is 2*s.* 2*d.* net, and *Canada* 4*s.* 6*d.* net.

Belladonna-leaves of good quality are quoted at 6*s.* per lb. net.

Benzoic Acid ex toluol is offered at 27*s.* to 28*s.* per lb. net as to quantity for spot delivery, but some ask more.

Benzonaphthol to arrive is offered at 80*s.* per lb. net.

Bergamot Oil is offered at from 21*s.* to 22*s.* per lb. on the spot, and at 21*s.* 6*d.* c.i.f. to come forward.

Betanaphthol.—Resublimed medicinal is offered at 9*s.* 6*d.* per lb. net for spot delivery.

Cananga Oil is offered at 18*s.* per lb. net.

Canary-seed is in steady demand at 85*s.* to 88*s.* per quarter for fair to good Morocco.

Caraway-seed.—The export from Holland is still prohibited.

Cascara Sagrada is firm at from 105*s.* to 110*s.* per cwt. on the spot for two-year-old bark; 201 bags have arrived. In auction 217 bags, imported in 1916, of fair quality were limited at 110*s.* per cwt.

Cassia Oil.—Fair sales on the spot have lately been made at 4*s.* 5*d.* for 80 to 85 per cent. c.a., but 4*s.* 6*d.* is now wanted.

Celery-seed is much dearer on spot, with up to 150*s.* per cwt. quoted. For some months an embargo has been placed on exports from France and nothing has been shipped, but there is now a possibility of licences being granted, when the price should come easier.

Cinchona.—The auction to be held at Amsterdam on June 14 will consist of 888 packages (420 bales and 468 cases) pharmaceutical bark weighing 49,708 kilos., and containing the equivalent of 1,440 kilos. quinine sulphate. The foregoing consists of 45,158 kilos., Succirubra and 4.550 kilos. Robusta, of which 11,513 kilos. are root-bark. The first-hand stock at Amsterdam on May 24 consisted of 7,120 packages Government and 26,464 packages private bark, a total of 33,584 packages, including the first-hand stocks to be offered on June 13 and 14.

Cloves are firm but quiet, with sellers of fair Zanzibar on the spot at 11*d.*; to arrive, there are buyers at 10¼*d.* c.i.f. d.w., and also buyers of June-August delivery at 10¾*d.*

Coca-leaves.—No coca will be offered at the Amsterdam auction on June 14.

Codeine remains firm at 22*s.* per oz. for the alkaloid pure crystals.

Coriander-seed is scarce on the spot and very firm at 77*s.* 6*d.* per cwt. for Morocco and 65*s.* for East Indian.

Coumarin has been sold at 60*s.* per lb. and buyers.

Cumin-seed is steady at 75*s.* to 80*s.* per cwt. for ordinary to good sifted Morocco. The quotation for Malta is about 77*s.* 6*d.* per cwt. In the drug-auction 10 bags of fair were retired at 70*s.* per cwt.

Dill-seed is quoted 47*s.* 6*d.* per cwt.

Fennel-seed.—There are no stocks here.

Fenugreek-seed is steady at 39*s.* per cwt. for fair Morocco.

Formaldehyde is offered at 130*s.* per cwt. net for 40-per-cent. volume on spot.

Gum Acacia.—Sales of Sudan sorts have been made on the spot at from 64*s.* to 65*s.* per cwt. as to quality.

Hexamine is still obtainable at 4*s.* per lb. net.

Hydroquinone to arrive is offered at from 12*s.* 9*d.* to 13*s.* per lb., and for spot delivery from 12*s.* 6*d.* to 13*s.* 6*d.* net is quoted.

Juniper Oil.—English B.P. from *berries* is quoted at 47*s.* net, and from *wood* at 9*s.* 3*d.* net.

Lemon Oil.—The demand on spot continues poor owing to the difficulty in obtaining sugar, and quotations for genuine oil remain wide owing to a fair quantity of resale parcels offering; agents quote from 4*s.* to 4*s.* 4*d.* per lb. for genuine oil, and to come forward from 3*s.* 9*d.* to 4*s.* 2*d.* c.i.f. is quoted, plus war-risk insurance.

Menthol has a weak undertone at 11*s.* 9*d.* on the spot for Kobayashi-Suzuki. Sellers of Kobayashi-Suzuki for July-August shipment quote 10*s.* 6*d.* per lb. c.i.f.

Milk-sugar is firmer at 200*s.* per cwt. for spot supplies, irrespective of brand; 100 cases Dutch have arrived.

Mint Oil.—Japanese dementholised is steady, with sales of July-August shipment at 2*s.* 9*d.* per lb. c.i.f.

Opium.—The price of Persian on the spot is firmer at from 42*s.* 6*d.* to 43*s.* per lb. for 10 per cent.; supplies remain very small. There appear to be no supplies of druggists' available.

Orange Oil.—Sicilian sweet is firm at 11*s.* 6*d.* per lb. on the spot.

Peppermint Oil.—American in tins in cases is firm at from 11*s.* 6*d.* to 11*s.* 9*d.* per lb. net on spot; H.G.H. is 16*s.* 6*d.* London terms, and also 16*s.* 6*d.* to arrive.

Phenacetin is still offered in small parcels at 90*s.* per lb. net.

Phenazone is offered at 52*s.* 6*d.* per lb. to arrive.

Phthalic Acid is offered at 27*s.* 6*d.* per lb. net.

Potash Permanganate.—Quotations vary from 12*s.* 6*d.* to 14*s.* per lb. in very limited quantities; there is a fair inquiry.

Pyramidon is offered to arrive at 62*s.* per lb. net.

Quicksilver.—The position is unchanged, with supplies obtainable at 20*l.* per bottle by those who have a Government permit, and at from 22*l.* to 25*l.* where such is not obtainable.

QUININE.—Small sales are being made for consumption at from 2*s.* 8½*d.* to 2*s.* 9*d.* per oz. for the usual brands. The landings in London during May amounted to 19,488 oz. and the deliveries to 141,248 oz., leaving a stock on May 31 of 1,045,488 oz., against 1,417,216 oz. in 1916.

RESORCIN.—Quotations are irregular, but generally lower at from 85*s.* to 95*s.* per lb.

SALICYLATES.—Salicylic acid has been in good demand, and the very reasonable prices lately quoted has led to buyers covering their requirements ahead. A fortnight ago English acid powder of finest quality was selling at slightly below 4*s.* per lb., but prices have rapidly advanced 1*s.* to 1*s.* 6*d.*, and 5*s.* to 5*s.* 6*d.* net is now quoted. We indicated in our two previous issues that a gradual improvement was in sight, due to the increasing cost of production and the cessation of competition from U.S.A. Sodium salicylate has improved to 7*s.* 6*d.* per lb.

SASSAFRAS OIL.—Natural American is dearer at from 4*s.* to 4*s.* 3*d.* net as to seller.

SERPENTARY has advanced to 3*s.* per lb. net on spot.

SHELLAC continues very slow of sale at the unaltered value of 220*s.* per cwt. for usual standard TN Orange quality, and blocky AC Garnet 230*s.* to 232*s.* 6*d.*

SODA SALTS.—Commercial soda *sulphite* in 5-cwt. casks is offered at 15*l.* per ton, and pea crystals in 1-cwt. kegs at 20*l.* per ton. Commercial soda *phosphate* is 32*l.* per ton; soda *sulphate* in bags is 70*s.* per ton.

SPARTEINE SULPHATE is practically unobtainable at the moment.

STRYCHNINE.—Makers announce a further 2*d.* per oz. in their June lists, quoting B.P. crystals at 3*s.* 11*d.*, and powder 3*s.* 10½*d.* net, sulphate at 3*s.* 8*d.*, and hydrochloride B.P. at 3*s.* 9*d.*

SUGAR.—The Royal Commission on Sugar Supply have raised the wholesale prices at which they offer the Commission's sugar for sale to the following rates: (*a*) Cubes, chips, etc., 53*s.* 9*d.* per cwt.; (*b*) crystals, granulated, dry white sugar, N.1, grocery crystallised, yellow crystal, 46*s.* 9*d.*; (*c*) West Indian muscovado, raw sugar, 44*s.* 6*d.*; (*d*) moist (pieces), West Indian grocery syrups, 42*s.* 3*d.*; (*e*) jellies, knots and lumps (to be sold only to manufacturers), 39*s.* 6*d.* per cwt. Terms 1¾ per cent. discount, fourteen days rent, and interest at 5 per cent. The following are the present official prices at which sugar must be sold by retail in the provinces: Cubes, 6½*d.*; granulated crystals, Demerara and yellow crystals, 5¾*d.*; pieces and West Indian syrup sugar, 5¼*d.* per lb.

SULPHONAL maintains its recent improvement at 45*s.* per lb. net.

TARTARIC ACID is lower at 3*s.* to 3*s.* 1*d.* per lb. for crystal or powder, according to seller. Fair arrivals have taken place lately.

TERPINEOL is firmer at 2*s.* 7*d.* per lb. net.

TURPENTINE has been dull throughout and practically unchanged on the week, closing at 54*s.* 3*d.* for American on spot. Spanish is obtainable at 53*s.*; no Russian is available.

WORMSEED OIL is offered in limited quantity at 23*s.* 6*d.* net.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, E.C., June 7.

THE supplies offered were in the hands of nine brokers, whose catalogues were bulky, the offerings, with one or two exceptions, being excessive, this applying to honey and senna. The demand, on the whole, was poor. Cape aloes sold at an irregular advance of from 4*s.* to 7*s.* per cwt., while Socotrine and Zanzibar were neglected. Sumatra benzoin is again dearer and scarce. On the other hand, Siam is plentiful, but sells privately only. Cardamoms showed a sudden revival in demand for export, and for Japanese camphor easier rates were paid for prize-lots. Calumba is scarce and wanted. No Siam gamboge offered, but probably a parcel will be offered at next auction. Considerable quantities of honey were catalogued, but the sale proved a fiasco, and small sales only were effected at a decline of fully 5*s.* per cwt. Ipecacuanha sold at a decline of 3*d.* per lb. for Matto Grosso. Kola brought fully previous prices, and Aden myrrh is held for extremely high values. Rhubarb and senna are neglected, while beeswax, which seems to get scarcer daily, brought higher rates for Egyptian. The following table shows the quantity of goods offered and sold:

	Offered	Sold
Aconite (Jap.)	10	0
Aloes—		
Cape	65	48
Socotrine	52	0
Zanzibar	(cs.) 33	0
Belladonna-root	19	0
Benzoin—		
Siam	16	0
Sumatra	97	27
Black-haw bark	70	0
Buchu	14	0
Calumba	92	*8
Camphor, ref.	22	7
Canella alba	10	0
Cannabis Ind.—		
African	40	1
Cantharides	27	0
Cardamoms	123	122
Cascara sagrada	217	0
Cashew-nuts	55	0
Cassia fistula	25	0
Cassia pulp	9	0
Cevadilla	34	0
Chamomiles	4	0
Chiretta	145	0
Cinchona	49	0
Cinnamon oil	5	0
Citric acid	(kgs.) 120	120
	(cks.) 16	16
Cochineal	20	0
Cod-liver oil	10	0
Colocynth	7	0
Condurango	44	0
Croton-seed	20	0
Cubebs	5	0
Cumin-seed	38	0
Cuttlefish-bone	10	0
Digitalis-leaves	172	0
Dill seed	50	10
Dragon's-blood	27	3
Egg-yolk	cs. 85	0
Elecampane	25	0
Ergot	10	1
Eucalyptus oil	20	0
Gamboge	5	0
Grindelia rob.	32	0
Guaiacum	5	*5
Guarana	2	0
Gum acacia	188	0
Gurjun oil	60	0
Honey—		
Buckwheat	121	0
California	577	74
Chilian	57	0
Cuban	689	75
Hawaiian	528	0
Hayti	99	0
Jamaica	511	10
St. Lucia	5	0
Insect-flower	25	0
Ipecacuanha—		
Cartagena	11	1
Matto Grosso	24	16
Minas	7	0
Juniper-berries	70	0
Kamala	2	0
Kino	9	4
Kola	66	51
Lanoline	2	0
Lime-juice (pun.)	1	*1
Liquorice-juice	5	0
Liquorice-root	264	0
Lobelia-herb	50	0
Lycopodium (cwt.)	5	0
Male-fern root	21	0
Manna	9	0
Mastich	10	0
Myrrh	10	*2
Nux vomica	296	0
Olibanum	231	*20
Orange oil	5	0
Orange-peel	69	0
Orchella-weed	46	0
Papain	3	0
Quassia (ton)	1	0
Quillaia	50	0
Rhatany	54	0
Rhubarb (Ch.)	77	2
Sandarac	4	0
Sarsaparilla—		
Honduras	11	2
Mexican	25	0
Native Jam.	2	0
Scammony-root	8	0
Senna and pods—		
Alex. and Arabian	101	0
Tinnevelly	1561	82
Soy	1	1
Squill	36	5
Stramonium	30	0
Strophanthus	18	0
Tamarinds	190	*40
Tonka-beans	34	0
Turmeric	873	0
Wahoo-bark	21	0
Wax (bees')—		
China	1	0
East Indian	120	0
Egyptian	346	346
Jamaica	6	0
Morocco	16	0
West Indian	1	0

* Sold privately.

ALOES.—Cape were in demand at an irregular advance of from 4*s.* to 7*s.* per cwt. Mossel Bay (usual 20-per-cent. tares) sold as follows: Good bright hard firsts, 53*s.*; good seconds, 50*s.* to 51*s.* 6*d.*; fair seconds, 47*s.* to 49*s.*; and soft seconds, part cindery, 40*s.* to 44*s.* per cwt.

BELLADONNA-ROOT.—Fourteen bales, testing 0.36 (Parry's analysis), were limited at 400*s.* per cwt., and for 5 bags of Indian, testing 0.6, 5*s.* 6*d.* per lb. was wanted.

BENZOIN has been in fair demand privately, and higher prices have been paid. In auction eight cases of very good Sumatra seconds, extra well packed with small almonds of fine storax flavour, sold at 9*l.*, and two cases not quite so well packed at 8*l.* 15*s.* A case of ordinary country-cut seconds sold at 6*l.* 17*s.* 6*d.*, and 16 cases of ordinary, part barky, seconds sold privately at 7*l.* Of Siam, 12 cases were bought in, including selected extra bold loose almonds at from 32*l.* to 34*l.* and small to bold loose almonds at 23*l.* per cwt.

BUCHU.—Four bales of fair round, slightly stalky, were held at 6*s.* to 6*s.* 3*d.* per lb.

CALUMBA remains extremely scarce, and a small lot of eight bags offered had been sold privately. Second-hands have made small sales of washed sorts at 80*s.*

CAMPHOR.—A lot of 22 cases Japanese refined, offered in prize, partly sold, comprising five cases ¼-oz. tablets at 3*s.* 6*d.*, and two cases $\frac{1}{10}$-oz. tablets at 3*s.*; 2½-lb. slabs were limited at 3*s.* 3*d.*

CARDAMOMS.—There was quite a revival in the demand, 113 cases of new import of favourite marks being sold to export buyers. Ceylon-Mysores, good bold pale, sold at 4*s.* 5*d.*, good medium pale 3*s.* to 3*s.* 3*d.*, small and medium ditto 1*s.* 11*d.* to 2*s.* 1*d.*; bold pale splits 3*s.* 6*d.*, medium to bold ditto 2*s.* 11*d.*, small splits and pickings 1*s.* 2*d.*, pale seed 1*s.* 7*d.*, and for good Bombay seed 1*s.* 9*d.* was paid for a case. Of Indian cardamoms 19 cases sold at from 1*s.* 6*d.* to 1*s.* 8*d.* for small to medium brown. Ten bags of shells sold without reserve at 1¾*d.* per lb.

The exports from Ceylon from January 1 to April 23, 1917, amounted to 93,660 lb., against 197,191 lb. during the corresponding period of 1916. The U.K. received 14,929 lb., against 121,408 lb.; the U.S.A., 16,878 lb., against 38,389 lb.; and India, 53,730 lb., against 27,577 lb.

CINCHONA.—In auction 14 bales of fair, part silvery, Calisaya quill were limited at 1*s.* 6*d.* per lb., and 39 bales of Guayaquil crown bark were bought in at from 1*s.* to 1*s.* 9*d.*

CITRIC ACID.—In auction 100 1-cwt. kegs of French and 20 1-cwt. kegs Italian crystals of B.P. quality sold at 3*s.* 3*d.* per lb., also 16 5-cwt. casks of Italian make went at 3*s.* 3*d.*, both less the usual discount of 5 per cent. The private price is 3*s.* 5*d.* nominal.

CUBEBS.—Extremely scarce. For five bags good clean berries the broker intimated he would take 18*l.*

DILL-SEED.—Ten bags of fair East Indian sold at 47*s.* 6*d.* per cwt.

DRAGON'S-BLOOD.—Three cases of dull broken Singapore slab sold at the previous price of 7*l.* per cwt.

ERGOT.—A single bag of very wormy Russian sold at 1*s.* per lb. net, and for seven packages of bold sound Spanish in cold storage 2*s.* 2*d.* net was wanted.

GURJUN OIL.—A lot of 60 drums Singapore offered, for which the limit had been raised 1*d.* to 10*d.* per lb.

HONEY.—The high prices ruling appear to have attracted larger imports, judging by the quantity (2,187 packages) offered to-day. The demand, however, was extremely slow, only 171 packages being disposed of at a reduction of fully 5*s.* per cwt. It is felt that present values are dangerously high and might end in the official commandeering of stocks at fixed prices. This was sufficient to account for the abstention of buying. A few barrels nice pale set Jamaica sold at from 93*s.* to 95*s.*; the chief sales were effected in Cuban, pale set in casks going at from 85*s.* to 90*s.*, liquid amber at 82*s.* 6*d.* to 85*s.*, and brown 74*s.* to 77*s.* 6*d.* Forty cases Californian sold at 97*s.* 6*d.*, and 20 cases (in prize) went at 90*s.*, also four drums at 80*s.*

INSECT-POWDER.—Twenty cases of Japanese ground, said by the broker to be genuine, were retired at 2*s.* 6*d.* per lb. Five bales of Japanese *flowers* were limited at 165*s.*

IPECACUANHA.—Matto Grosso was easier, six bales of fair bright, partly plump selling at 9*s.* 9*d.*, and for 10 bales sea and grease damaged from 8*s.* 3*d.* to 8*s.* 7*d.* was paid, which was cheap considering the quality and the slightness of damage. Of Cartagena, seven bales offered and one sold at 9*s.* 9*d.* for fair average quality. Privately small sales of Cartagena have been made at 10*s.* per lb.

KINO.—Four bags of inferior dusty and woody sold at 5½*d.* per lb.

KOLA sold at full to rather better prices, 30 bags of good Java halves realising from 6¼*d.* to 6½*d.*; 21 bags of halves and whole slightly wormy went at 6*d.*, and 10 bags of small ditto and slightly wormy at 5*d.* to 5½*d.*

LIQUORICE-JUICE.—Five cases of Italian "Boracco" brand in sticks were retired at 240*s.*

MYRRH remains very scarce and dear. A parcel of eight bales was offered, consisting of good fair partly blocky Aden sorts, which was retired at 11*l.* per cwt.

OLIBANUM.—Although supplies are increasing, previous prices are maintained, 150*s.* being wanted for fine drop, fair being obtainable at 120*s.*, and small at 105*s.*; garblings are limited at from 65*s.* to 75*s.*

RHUBARB.—Quiet. A case of Canton pickings sold at 1*s.*5*d.*, and a case of bold round horny High-dried with three-quarters fair fracture at 11*d.* per lb. Bold flat Canton with three-quarters pinky fracture was limited at 2*s.* 6*d.*, at which private sales had been made, and for bold flat High-dried with three-quarters pinky fracture 1*s.* 7*d.* is wanted, which is the price asked privately. No genuine Shensi offered, but for medium to bold round wild character of mostly pale pinky fracture the limit was 2*s.* per lb.

SARSAPARILLA.—No grey Jamaica or Lima-Jamaica offered, and privately supplies of these descriptions are unobtainable. Of 11 serons Honduras offered, two sold at 2*s.* 4*d.* per lb. for fair rolled, subject to confirmation. Twenty-five bales of Mexican offered, for which the limit was 1*s.* 5*d.*, and of native Jamaica two bales were offered, fair red being held at 2*s.*, and pale yellow and red at 1*s.* 10*d.*

SENNA.—Demand was extremely poor, and prices of Tinnevelly tended easier. Inferior small to medium sea-damaged yellowish leaf sold at 2½*d.* to 3*d.*; ordinary small to medium greenish at 3½*d.* to 4*d.*; fair medium greenish, slightly sea-damaged, 5¼*d.* to 5¾*d.*; and damaged, 3*d.* to 4½*d.* *Pods* quite neglected at from 3*d.* to 4*d.* per lb. Eight bales of fair to good bright pale Alexandrian pods were limited at from 4*s.* to 4*s.* 6*d.* per lb.

SOY.—A single cask of Chinese (Seuloong brand) sold at 3*s.* 6*d.* per gal. in bond.

SQUILL.—Five bags of fair brownish sold at 42*s.* 6*d.*

STROPHANTHUS.—Eighteen bags of Kombe were offered and bought in, the limit being 4*s.* 3*d.*, of which sales have been made privately.

TAMARINDS are dearer; 40 barrels of Antigua had been sold in bond at 35*s.*; inferior Madras were limited at 32*s.* 6*d.*

TURMERIC.—A lot of 340 bags Cochin split bulbs was limited at 37*s.* 6*d.*, at which business has been done privately; for fair Madras finger 45*s.* is wanted.

WAX, BEES', is very scarce and again dearer. A line of 346 packages of Egyptian sold at 10*l.* 5*s.* (one lot 10*l.* 7*s.* 6*d.*) per cwt. for good yellow and brown block. Of Jamaica six bales only were offered, and were bought in at 12*l.* per cwt. A bid of 11*l.* is to be submitted for a barrel of very dark brown. Of bleached Calcutta 40 packages were bought in at from 9*l.* to 10*l.* 10*s.* per cwt., according to quality.

German Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets up to May 9:

ALUM has advanced by m.1 per 100 kilos., as raw material is almost unobtainable. Only orders for prompt delivery can be accepted, and the Army has the first call. Crystals are at m.63 per 100 kilos. and c.p. m.66. Burnt alum is from m.135 to m.140 per 100 kilos.

AMMON. CARB. is quoted at from m.192 to m.195 per 100 kilos.

CALCIUM CARBONATE.—Precipitated is in active demand, and prices have advanced; white light is from m.60 to m.65 per 100 kilos. now, according to quality.

JUNIPER-BERRIES have been offered in large quantities at from m.124 to m.127 per 100 kilos.

LYCOPODIUM.—Surrogate "lycopuder," which can only be used for technical purposes, has been advanced to m.290 per 100 kilos. because of scarcity of raw material.

POTASH CYANIDE, 99 to 100 per cent., is quoted at m.175 by makers.

QUILLAIA.—Cut is offered in small lots at from m.550 to m.560 per 100 kilos., and powdered at from m.750 to m.760.

SAPONIN is in demand; purified pale saponin is offered at m.42.50 and yellowish-brown at m.25 per kilo.

VANILLIN is extremely high. Now and then very small lots offer, and at least m.300 per kilo. must be paid; frequently higher prices have been paid, even m.425.

Arrivals of Chemicals, Drugs, etc.

THE following is a selection of arrivals at the Ports of London and Liverpool during the period May 23 to 29 inclusive:

To London.

Acetanilide, 16 brls.
Acetic acid, 149 brls.
Angelica-root, 14 bls.
Antim. reg., 62 tons; antim. ore, 210 tons
Arsenic, 646 cwt. 650*l.*
Bismuth ore, 480*l.*
Bromides: potash, 15 cs.
Bromo-seltzer, 245 cs.
Calc. phosphate, 20 brls.
Camphor, 308 cs.
Cardamoms, 14 cs.
Casein, 795*l.*
Chamomiles, 24 bls.
Cinchona, 65 pkgs.
Citric acid, 88 pkgs.
Condurango, 87 bgs.
Couch-grass, 67 bls.
Cream of tartar, 100 kgs.
Cuttlefish-bone, 168*l.*
Drugs, various, 38 pkgs.
Dyestuffs: logwood ext., 9 brls.
Eosine paste, 1 brl.
Eucalyptus oil, 718 cs.
Formaldehyde, 109 brls.
Gelatin, 3,581*l.*
Gentian, 5 bls.
Glycerophosph. lime, 10 cs.
Gums: acacia, 203 cwt.; copal, 100 cwt.: olibanum, 125 cwt.
Hellebore-root, 5 bls.
Herbs, dried, 50 bls.
Hydroquinone, 2 kgs.
Hyssop, 1 bl.
Inseet-flowers, 45 bls.; powder, 6 es.
Iodine, ref., 7 es.
Jalap, 116 bgs.
Juniper-berr., 23 bgs.
Manna, 7 cs.
Marshmallow, 15 bls.
Methyl sal., 7 es.
Milk-sugar, 150 es.
Mineral white, 40*l.*
Nuts and kernels: apricot, 29 cwt.; cashew, 400 cwt.; copra, 8,580 cwt.; ground, 50 cwt.
Nux vomica, 400 bgs.
Ointment, 400*l.*
Oils, essential, 24 drms. 3 dmjhns. 29 cs.; anise, star, 50 es.; sandalwood, 685*l.*; synthetic, 6 es.
Oils, fixed: arachis, 2,000 cs.; coconut, unref., 312 pps. 23 pns. 17 hds. 211 pkgs.; fish, 750 cs.; rape, 500 cs.; wood, 1,183*l.*
Opium, 60 cs.
Papain, 15 es.
Perfumery, unrated, 136*l.*; toilet-powder, 837*l.*; water, 9*l.*
Platinum, 391*l.*
Potash carb., 114 cs.
Potash iodide, 90 cs.
Pyrogallic ac., 6 eks.
Quinine, 26,000 oz.
Rosin, 1,350 brls. 220 cks.
Sandalwood, 393 bls.
Sarsaparilla, 30 bls.
Seeds: annatto, 160 bgs.; canary, 12 bgs.; coriander, 238 bgs.; cotton, 615 tons; fenugreek, 396 bgs.; lin, 862 bgs.
Senna, 119 bls.
Soda butyrate, 2 cwt.
Soda salicyl., 4 cwt.
Sponge, 254 pkgs. 136 bls.
Starches: farina, 1,600 cwt.; maize, 15,330 cwt.; potato-flour, 6,200 cwt.
Stramonium, 17 bgs.
Sulphonal, 1 es.
Sulphur, 396 cwt.
Tannic acid, 7 eks.
Tartaric acid, 20 eks. 84 brls.
Turmeric, 382 bgs.
Vacuum flasks, 382*l.*
Verdigris, 2 es.
Wax (mostly bees') 230 pkgs. 4 es. 49 bgs.
Wax, paraffin, 1,652 cwt..

To Liverpool.

Acetic acid, 225 brls.
Antim. ore, 42½ tons
Borax, 683 brls.
Boric acid, 1,392 brls.
Bromides: potash, 2 es.; soda, 2 es.
Castor oil, 250 es.
Cellulose acetate, 8 brls.
Citric acid, 150 es.
Cod-liver oil, 6 eks.
Cream of tartar, 44 eks.
Drugs, unrated, 1,190*l.* 83 es. 156 pkgs. 282 bls. 8 bgs. 7 brls.
Dyestuffs, unrated, 40 brls.; gambier, block, 268 es.; cubes, 162 bgs.; logwood ext., 128 cks.; logwood liquor, 12 eks.; quercitron ext., 150 cks.; tanning ext. 850 bgs. 1,435 pkgs.
Dyestuffs: chestnut ext., 325 eks.; logwood ext., 57 pkgs.; quebracho ext., 10,000 bgs.
Formaldehyde, 29 brls.
Gum copal, 30 es.
Nuts and kernels (bags): babassu, 3,649; copra, 1,299; palm-kern., 38,957; tucum-nut kern., 28
Oils, essential, 20 drms.; cananga, 1 drm.; thyme oil, 15 es.
Oils, fixed: coconut, 1,100 es.; cotton-seed, 500 brls.; olive, 100 es.; palm, 79 eks.
Rosin, 10,117 brls. 100 eks.
Seeds (bgs.): castor, 418; coriander, 48; cotton, 32,349; lin, 2,730; soya-beans, 99,408
Soda caustic, 139 dms.
Soda silicate, 10 bdls.
Starches, 3,734 pkgs.; farina, 2,000 bgs.
Sulphur ore, 799 tons
Talc powder, 100 bgs.
Thorium and cerium nit., 9 es.
Wax, bees', 9 es.
Wax, carnauba, 615 bgs.

The Chemist's Title.

SIR,—I was interested in Jay Mack's communication (*C. & D.*, June 2, p. 50) on the names employed to designate those who practise pharmacy or merely sell drugs and such articles as the public associate with the chemist's shop. Pharmacist is a name which will require several generations of systematic advertising to acclimatise, and perhaps it is true it may be characterised as waste effort. "Chemist" is not so foreign to pharmacy as appears on the surface, since the first real chemists, apart from the alchemists, were those who to a large extent approached it from the medicine point of view. However, chemistry has long since outdistanced pharmacy. The term "druggist" is still largely used, especially in country districts and, I believe, in certain parts of Scotland, but the official designation of druggist given in the V.D. circulars would imply that the term is applied to the unqualified; pharmacist and chemist are terms not included in the ban. It would appear to me that the term druggist is a reversion. There is one name which is appropriate, and that is "apothecary." The curious part is that the conversion of this term to medical usage leaves it high and dry, since the Licentiates of the Society of Apothecaries drop the term as soon as they have won their qualification. The pharmacist is the modern prototype of the apothecary, and the name is still used in various parts of the country for the shop. Indeed, it is not altogether unknown for patients in hospitals to refer to the dispenser as the apothecary. On the Continent, in non-Latin countries, there exist the protected apothecary and the unprotected and unqualified vendor of common drugs called the druggist. The simple term druggist connotes, however, one who sells drugs on the wholesale plan, who need not necessarily be qualified. That is the danger. HERBERT SKINNER.

G.N.C. Hospital, London, N. 7.

Irish Assistants' Wages.

SIR,—I think assistants should prove their claim to the title "assistant" by passing the examination for Assistants to Pharmaceutical Chemists. Employers would then be able to select competent men, and I am sure there would be very little difficulty in deciding upon standard wages as well as hours for qualified assistants.

Yours faithfully,

FORMERLY QUALIFIED. (47/52.)

SIR,—As an assistant with ten years' first-class experience, I should like to give my experience as to how assistants are paid in Dublin, and I know for a fact that the assistants are not paid better in Limerick than in any other part of Ireland. I am in a very good-class district in Dublin, and work sixty-five hours per week, as well as every alternate Sunday. I have to dispense, attend the counter, keep stock, and make myself generally useful, for which I receive 30*l.* a year indoor. Is this a professional salary or a working-man's wage? Now, "Carboy," do you still wonder why we seek the aid of bricklayers, carpenters, etc., to give us a hand in trying to move some of the long-standing pillars of pharmacy?

Yours truly,

HEXAMINA. (50/33.)

SIR,—From "Limerick's" remarks I may take it for granted that he is an employer, but I am pleased to say, judging from the phraseology of his letter, he is not representative of the average. Speaking as a L.P.S.I. and as a champion of the rights of the "grumbling" assistants, I advise "Limerick" to leave the issue to be decided by more broad-minded men. "Limerick" must be aware that the average wage of a chemist's assistant is only 25*s.* to 30*s.* per week, even in his own city, which should be called the "nursery of apprentices," owing to the fact that two-thirds of the work is done by apprentices, who are afterwards despatched to flood an already overcrowded market of assistant labour. He must also be aware that the purchasable value of 1*l.* is now only 11*s.*, and in face of that knowledge will he dare to uphold his vague arguments against this much-delayed war bonus? I appeal to "Limerick" and all other employers to hear the just demands of their assistants, and to beware of the monster they are slowly creating lest it may recoil on themselves.

Yours faithfully,

DUBLIN. (43/34.)

SIR,—With reference to "Limerick's" letter (*C. & D.*, May 26, p. 50), I think the following facts should be made known. The assistants in Limerick are looking, not for an increase considered as such in the ordinary course of events, but for an increase to meet the extraordinary advance in price of the necessities of life. This, surely, is not unreasonable, and has already been granted to almost every other body of workers in the Kingdom. The employers declined to meet a deputation from the Assistants' Association, and to the assistants' application for war bonus they returned a refusal, on the grounds that (*a*) no such application had been made elsewhere, and (*b*) they believed the Limerick assistants are paid at a higher rate than in any other town in Ireland. They would neither admit nor deny the necessity for war bonus, nor would they allow the assistants the opportunity of discussing the matter with them. . . . "Limerick's" statement, that since the beginning of the present year practically all the assistants have had their salaries increased, is, in my opinion, a rather misleading exaggeration. I should like "Limerick" to give his authority for the statement. Of the six cases of increased salary I know of, three, I understand, were granted voluntarily, two were granted when it was found it was a case of granting the increase or getting two new assistants, and one was granted in January, which was, I understand, applied for last November. Is "Limerick" in a position to state that the present rate of remuneration in Limerick is in excess of the pre-war rate, and, if so, by what percentage? ICA. (43/63.)

Subscribers' Symposium.

Copper Sulphate.

Mr. C. E. A. Goode, Secretary of the Essex County Pharmacists' Association, asks any chemist in his area who is experiencing a difficulty in supplying copper sulphate to communicate with him.

Poisoning from Rhubarb-leaves.

F. O. (46/72) writes: "Do you not think that a very probable solution of the deaths arising from eating rhubarb-leaves may be that they receive the dressing from the fruit-trees under which they are grown? And this season especially nicotine and arsenate of lead have been used to a very much larger extent than before." [It seems to be definitely established that rhubarb-leaves contain a larger proportion of oxalic acid or soluble oxalate than the leaf-stalk. In the Enfield case it was found that death was due to the oxalates.—EDITOR.]

Fruit-preserving.

J. M. (Brighton) (48/24), referring to the note in the *C. & D.* (June 2, p. 51) on this subject, writes: "'W. H. B.' should place the fruit in bottles, fill up with cold water, put the bottles in a saucepan with straw under the bottles, heat sufficiently to scald the fruit, take out and allow to cool, then pour on a layer of olive oil and tie down. Hard fats contract and admit air, and I think that was the cause of the trouble. Fruit preserved as above will keep nine or ten months."

"Noting your paragraph *re* fruit-preserving, I should like to say that for several years I have used the 'Kilner' jars and have found them highly successful. No preservative of any kind is required. The *modus operandi* is to fill the jars with sound fruit and place in a warm oven until the skin cracks, then fill up with boiling water and seal down. I have still a considerable quantity of fruit (plums and blackberries), put down in this way last year, in perfect condition, and when served indistinguishable from the fresh fruit. The 'Kilner' jar consists of jar, I.R. ring, glass top, and metal screw-top, and is, I believe, obtainable through most of the sundry houses."—*A. H. Cartwright* (Dover).

The Price of Halazone.

Scientia (91/19) writes: "A medical man inquired this week for 400 halazone tablets for a penny. I had read the note on halazone in the *C. & D.*, but was a little astonished at the request for tablets at that price. On getting to the bottom of the matter I found that Drs. Dakin and Dunham, in the original article in the 'B.M.J.,' state that sufficient of the new chemical can be made for a penny to sterilise a hundred gallons of water. As the tablets recommended by these writers are each only sufficient for a quart of water, it follows that 400 tablets are required for the job. Drs. Dakin and Dunham, by setting afloat—in all seriousness, I presume—the legend regarding the infinitesimal cost of this drug, which will probably be retailed in tablet-form at half-a-crown a hundred—if as low as that—have done something to perpetuate the good old crusted superstition about druggists' profits."

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Radix (48/22) is over the age of forty-one, and unattested, but was under forty-one at the time of the passing of the Military Service Act. Is he liable to military service? He has not yet been called to the Colours. [If "Radix" is single and attained the age of forty-one since February 1916 he is liable to serve; if he is married he is liable to serve, unless he was forty-one before June 24, 1916.]

H. W. (43/21).—SUPPLY OF COCAINE SOLUTION.—A 1-per-cent. solution can by special permission be supplied, for the present, to unregistered persons who were engaged in the practice of dentistry before July 28, 1916. The sale must be entered in the cocaine register. Three gallons of the solution seems a large quantity to supply, and you should satisfy yourself that it is to be used solely as a local anæsthetic.

W. G. (46/1) asks if he can supply, say, four or five ounces of brandy provided he gets a doctor's prescription for it. [No; by so doing he would commit an offence against both the general licensing law and the law as to Excise licences. He would also be offending against the Liquor Control Board regulations, as brandy is clearly not a "medicine, mixture, or preparation which is made up for a customer on the signed prescription of a medical practitioner." See as to this *C. & D. Diary*, 1917, pages 216, 217.—EDITOR.]

H. S. (41/32).—(1) It is necessary for you to give a reference to the published formula for the CHOLERA-MIXTURE if you wish to sell it unstamped as a "known, admitted, and approved remedy." Special attention was called to this a few years ago, as many chemists were selling the mixture without the necessary reference. The next opportunity for registering formulæ will be in *The Chemist and Druggist Diary*, 1918. There are already included in "Pharmaceutical Formulas" about a hundred formulæ more or less resembling the one you submit. (2) You may not sell dutiable medicines unstamped to medical men as such, nor can you dispense dutiable medicines unstamped unless mixed with some other ingredient. You will find this explained in *The Chemist and Druggist Diary*, 1917, p. 363.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

E. H. T. (43/64).—JAM-MAKING.—The proportion of glucose to fruit used in jam-making is as follows: Glucose (liquid) 1¼ to 1½ part, fruit 1 part. If sugar is also employed the quantity to use is glucose 1 part, sugar 2 parts, fruit 3 parts.

J. M. W. L. (43/56).—Fruit-preserving with salt is understood to be unsuccessful. The amount of salt recommended was small—about one or two teaspoonfuls to each pound of fruit. This was employed in conjunction with sugar.

K. B. & P. (36/68).—RUBBER-STAMP INK.—The following are two formulæ for purple or violet stamping-inks:

I.		II.	
Methyl violet	2 dr.	Soft-soap	1 oz.
Distilled water	10 dr.	Glycerin	3½ oz. (weight)
Acetic acid	2 dr.	Distilled water	12 oz.
Rectified spirit	1½ oz.	Rectified spirit	25 oz.
Glycerin to make	10 oz.	Methyl violet	½ oz.
Make into a solution by rubbing in a mortar.			

Lespa (31/57).—PERSPIRATION DEODORANT.—The following powders are employed for checking profuse perspiration and deodorising fœtid perspiration:

I.		II.
Salicylic acid	10 parts	Magnesium carbonate,
Bismuth subnitrate	15 parts	Alum, in fine powder,
Zinc oleate	10 parts	French chalk ... equal parts

W. E. M. (46/63).—The reference number you give is to worm-powders for children, not, as you appear to imagine, to a "compound phosphorus tonic."

Rusticus (36/33).—BEETLE-POISON.—The following powders meet your requirement of being free of arsenic or phosphorus. They can be made into a stiff mass with lard to form pastes:

I	II.	
Barium carbonate,	Red lead	1 part
Brown sugar ... equal parts	Sugar of lead	1 part
	Flour	2 parts
	Brown sugar	1 part

W. A. R. (38/25).—REPAIRING PRIMUS STOVES.—To repair brass stoves the method known as brazing or hard-soldering is employed. The parts to be united are fitted together and kept in place by means of a clamp or wire rivets. A blow-torch or blow-pipe is used as the heating-agent, the flux employed being either borax or boric acid. Professional braziers keep a number of alloys as solders, these being in the form of granular powders, in which condition they can readily be mixed with the flux. If slightly damped the mixture is easily placed upon the joint or spot which it is required to braze, by means of a small brush or piece of stick. The composition of the brazing-powders—which you can purchase ready-made—is as follows:

	I.	II.	III.
Tin	—	—	2
Copper	6	2	8
Zinc	2	2	6

No. I. is the hardest and No. III. the softest. Pure tin is also a good soft alloy for brazing.

P. & S. (91/19).—HALAZONE.—We had not space in our issue of June 2 (p. 43) to give the details of the manufacture of this new product recommended for the disinfection of drinking-water. The chemical name is *p*-sulphon-dichloramino-benzoic acid, and it is made as follows:

Preparation of p-Sulphonamido-benzoic Acid.—Add 250 grams commercial sodium dichromate to a mixture of 200 c.c. concentrated sulphuric acid and 600 c.c. water contained in 2-litre round flask. Then add 100 grams crude toluene-*p*-sulphonamide, and heat on a sand-bath with reflux condenser for one hour, using a small flame at first as the reaction is vigorous. On cooling, wash the separated crystals well with cold water, and then dissolve them in hot dilute sodium hydroxide in slight excess. Filter hot, and add excess of hydrochloric acid, and when cold filter off the precipitated acid and wash well with water and dry. The yield is about 80 per cent. of theory.

Preparation of p-Sulphon-dichloramino-benzoic Acid.—Twenty grams of *p*-sulphonamido-benzoic acid is dissolved in 200 c.c. approximately normal sodium hydroxide (2 mols.), warming if necessary. About 200 grams of crushed ice is then added, and the mixture saturated with a rapid current of chlorine. The reaction is most conveniently carried out in a fairly wide-mouthed flask, which may be shaken while the gas is being introduced. If the temperature should rise more ice can be added. A white, rather chalky precipitate of the dichloramino acid is at once precipitated. The acid is filtered off, using suction, well washed with cold water, and dried *in vacuo* on a porous plate. The dry substance is practically pure, and may be powdered and preserved apparently indefinitely. Prepared by this method, the yield of the dichloramino acid is practically the theoretical amount.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1867.

Chemists' Assistants' Association.

The session closed on June 6, 1867, Mr. J. Lloyd being President. In a report signed by him and Mr. G. R. Sleggs, Hon. Secretary, it was stated that the membership was 129, and the Committee noted a marked improvement in the treatment of subjects brought forward for discussion. The half-yearly supper had been held on January 10, fifty-two gentlemen joining the party. Reference was made to the Pharmacy Bill, which at the time was the one absorbing trade subject apart from the British Pharmacopœia of 1867, as to which the report stated: "It will be our first duty to become acquainted with its details, and as far as possible to adopt the well-attested formulæ it so authoritatively contains."

[This Association was the predecessor of the present Chemists' Assistants' Association, of which Sir Richard Winfrey was one of the earliest Presidents.—EDITOR *C. & D.*]

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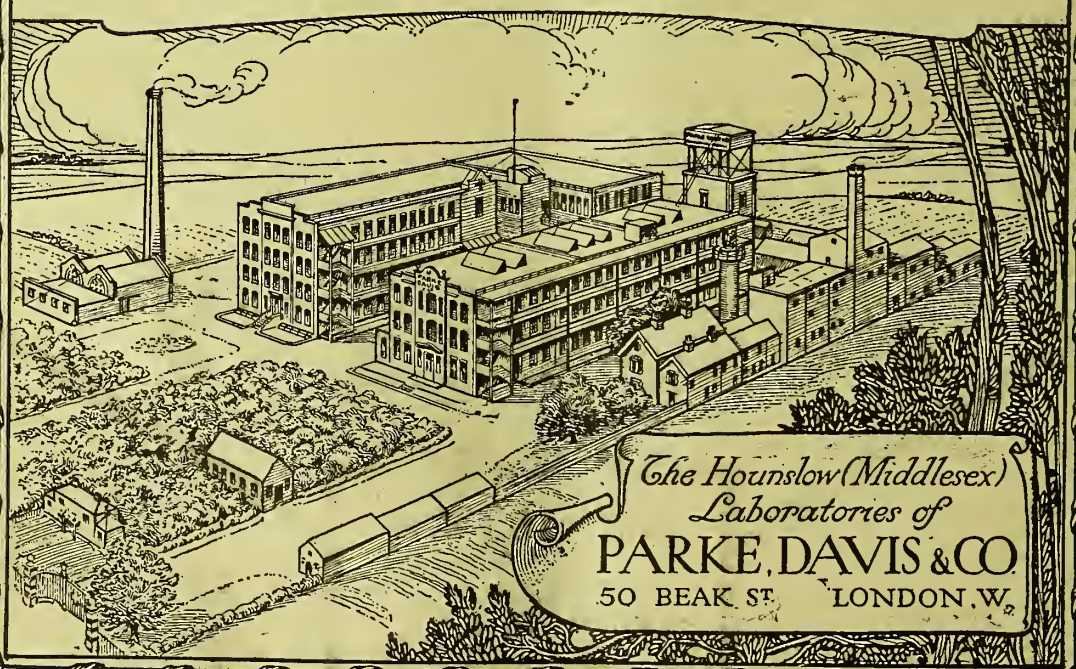

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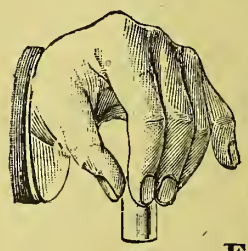

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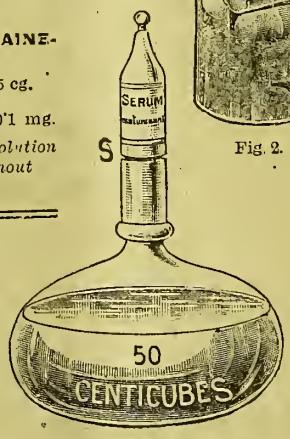

Fig. 3.

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Otto Rose, finest, 1 oz. @ 58/- oz.; No. 2 1 oz. @ 37/6 oz.
Oxymel Scillæ, B.P., 1 cwt. @ 95/- cwt.; *7 lbs. @ 11½d. lb.

Papain, 1-80, 1 oz. @ 3/- oz.
Paraffinum Durum, B.P., 2 cwt. @ 7½d. lb.; 1 cwt. @ 7¾d. lb.; 56 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; Molle Flav., B.P., 3½ cwt. @ 50/- cwt.; 1 cwt. @ 52/6 cwt.; 28 lbs. @ 6½d. lb.; 7 lbs. @ 7½d. lb.; Alb. B.P., 3½ cwt. @ 92/- cwt.; 28 lbs. @ 1/- lb.
Paraldehyde, B.P., 1 lb. @ 14/- lb.
Pepsin, B.P., 1 lb. @ 12/- lb.
Phenacetin, P.B., pulv., 1 lb. @ lb.
Phenazone, P.B., 1 lb. @ 64/- lb
Phenolphthalein, 1 lb. @ 97/6 lb.
Pix, Burgund., Druggists', 1½ cwt. @ 38/- cwt.; 7 lbs. @ 6d. lb.
Plumbi Acetas, Druggists', 1 cwt. @ 123/- cwt.; 7 lbs. @ 1/2 lb.; Powder, 1½d. lb. extra.
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Potassa Caustica Sticks, P.B., 1-lb. Bots. @ 14/- lb.
Potass. Acetas. Gran., P.B., 28lbs. @ 3/11 lb.; 7 lbs. @ 4/1 lb.
Potass. Bicarb. Pulv., 7 lbs. @ 2/4 lb.
Potass. Brom. P.B., 7 lbs. @ 7/3 lb.
Potass. Chlor. Pulv., 7 lbs. @ 3/2 lb.
Potass. Cit., B.P., 7 lbs. @ 4/8 lb.
Potass. Cyanidum, 98%, 7 lbs. @ 3/9 lb.
Potass. Iod., P.B., 14 lbs. @ 12/10 lb.; 3 lbs. @ 13/3 lb.
Potass. Metabisulph., 7 lbs. @ 3/3 lb.
Potass. Permang., Cryst., 2 lbs. @ 15/- lb.
Potass. Prussias Flav., 7 lbs. @ 5/6 lb.
Pulv. Cetæ Arom. P.B., 14 lbs. @ 1/2 lb.; c. Opio, B.P., 7 lbs. @ 3/2 lb.
Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 105/- cwt.
Pulv. Ipecac. Comp. P.B., 1 lb. @ 7/6 lb.
" Jalap Comp. P.B., 1 lb. @ 2/6 lb.
" Rhei Comp. P.B., 1 lb. @ 2/4 lb.

Quassia Chips, 1 cwt. @ 40/- cwt.; 28 lbs. @ 5d. lb.
Quinine Bisulph., 10 oz. @ oz.
Quinine Ethyl Carb. (Tasteless), 10 oz. @ oz.
Quinine Hydrobromas, B.P., 25 oz. @ 3/11 oz.; 10 oz. @ 4/- oz.
Quinine Hydrochlor., B.P., 25 ozs. @ 3/10 oz.; 10 ozs. @ 3/11 oz.
Quinine Sulph., B.P., 100 oz. @ 3/- oz.; 25 oz. @ 3/2 oz.; 10 oz. @ 3/3 oz.

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Rad. Glycyrrh. English Ground, 1 cwt. @ 72/6 cwt.; 7 lbs. @ 9d. lb.
Rad. Ipecac. Rio., 1 lb. @ 13/-.
Rad. Jalap, English Ground, 28 lbs. @ 1/7 lb.; 7 lbs. @ 1/8 lb.
Rad. Rhei., B.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Rad. Rhei. B.I. Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.
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Saccharine, 7 lbs. @ lb.; ·550 or ·500, 1 lb. @ lb.
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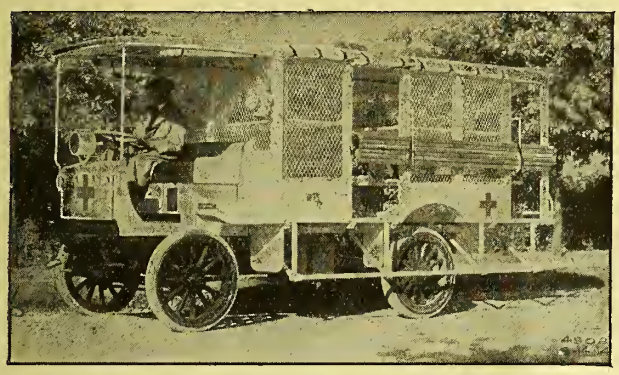

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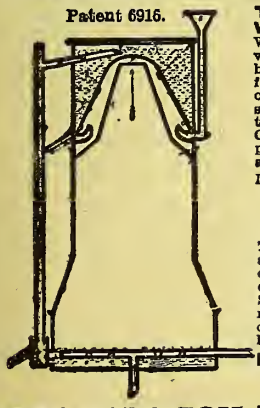

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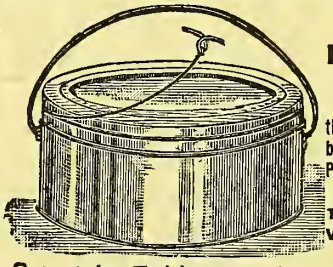

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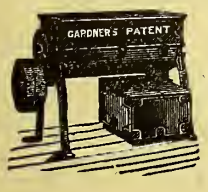

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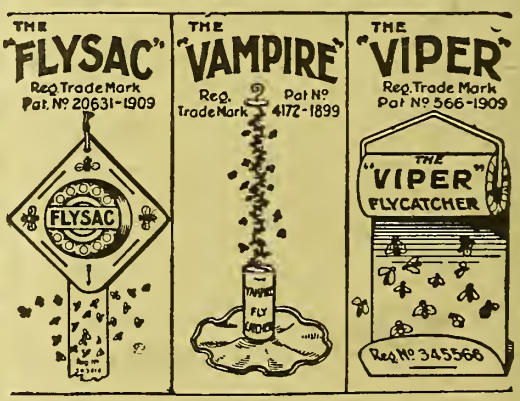

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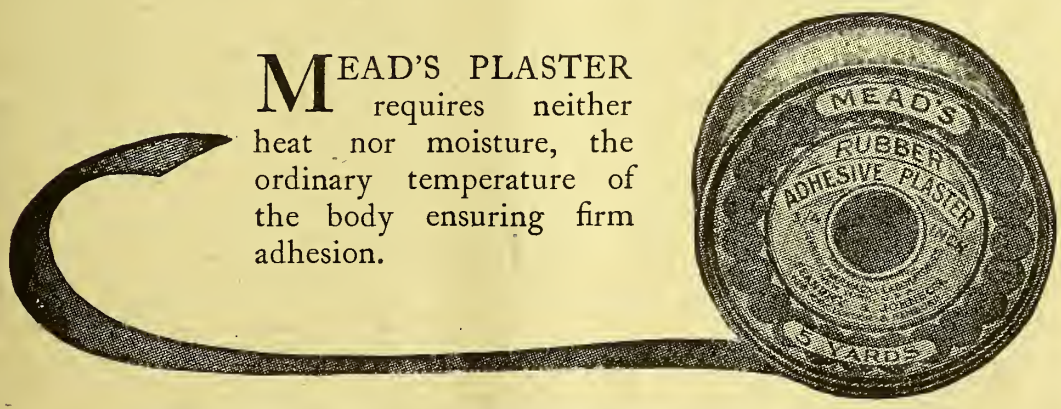

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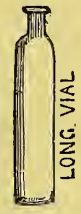

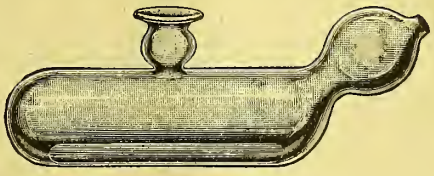

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JUNE 9, 1917

This Supplement is Inserted in every number of The Chemist and Druggist.

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[2] [2]

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

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MIDLANDS.—Owing to death of proprietor, excellent Retail and Dispensing Business, with Wine and Spirit licence, in healthy, flourishing country market town; a prosperous business for 50 years, and still open to development; modern premises with good house; well-fitted shop; satisfactory lease; an exceptional opportunity to immediate buyer. Apply, Mrs. G. Heaton, Ripley, Derbyshire.

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3.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house attached; price £450 or valuation.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; splendid house; own property; price £400 cash; worth attention.

5.—LONDON, W.—High-class Dispensing Business for Private Disposal; returns between £2,000 and £2,500; excellent profits; prominent position; with scope for increase; fine opportunity for two smart men; price £1,100; references required.

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REQUIRED, Apprentice, young lady or gentleman of good education, in Retail and Dispensing Pharmacy, London, N.; indoor accommodation can be arranged. Reply to 259/13, Office of this Paper.

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RETAIL.

ALDERSHOT.—Wanted, Junior or Improver; lady or gentleman, or unqualified man past military age or ineligible; Light Retail and Dispensing. Allen & Lloyd, Aldershot.

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BATH.—First Assistant in Dispensing business; must be ineligible for Army; responsible position; correspondence invited; qualification not essential. Apply 261/23, Office of this Paper.

BATLEY.—At once, lady (Hall certificate). Experience and salary required to Drug Dept., Batley Co-operative Society, Ltd.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (257/303), Office of this Paper.

BIRMINGHAM.—Assistant required for good-class Dispensing and Photographic business; outdoors; no Sunday duty. Apply, with usual particulars, Marshall Bros., Pharmacist, Moseley.

BIRMINGHAM.—Good opening for smart, unqualified man, age over 42, in the office of a well-known firm; must have had all-round experience and be well up in prices. "Hazel" (257/300), Office of this Paper.

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BUXTON.—Lady Assistant or elderly gentleman for the Dispensing Counter wanted from June to October; outdoor berth; no night duty. Apply, stating particulars of experience and salary desired, to W. T. Young, Pharmacist, Spring Gardens, Buxton (Derbys.).

COLWYN BAY.—Qualified or unqualified Assistant wanted, with knowledge of Photography (no developing or printing); outdoors; easy hours. State experience, salary required, military position, age, etc., to D. Llewelyn Jones, Chemist, Colwyn Bay.

CORNWALL.—A capable Assistant (lady or gentleman) wanted for an old-established Family and Dispensing business in a market town; short hours; no Sunday duty. Apply, with the usual particulars, to C. Wakeham & Son, Chemists, Helston.

EASTBOURNE.—Junior lady Assistant wanted (outdoors) for old-established, good-class Family and Dispensing trade; Improver not objected to; good hours. State usual particulars to Geo. A. Harmer, Pharmacist, Eastbourne.

EXETER.—Competent Assistant, unqualified, male or female, for 3 months or permanency; accustomed to good-class Business. Apply, with usual particulars and salary required, to Mr. Reid, 2 Queen Street.

GOSPORT.—Qualified Manager for Light Retail and Prescribing business; hours easy; outdoors; no Sunday duty; a little N.I. Dispensing; assistance given. Apply, stating experience and full particulars, to B. French & Son, 95 North Street, Gosport.

GLOUCESTER.—Assistant required; outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

HOVE.—Locum required for 10 days from July 25th; indoors. State full particulars and terms to "T. R.," 4 Victoria Terrace, Hove, Sussex.

LIVERPOOL.—Qualified or unqualified Manager wanted for Business in district; over military age or ineligible; liberal salary and commission to suitable man; lady not objected to if accustomed to Retail trade. Apply, with particulars (photo if convenient), 259/10, Office of this Paper.

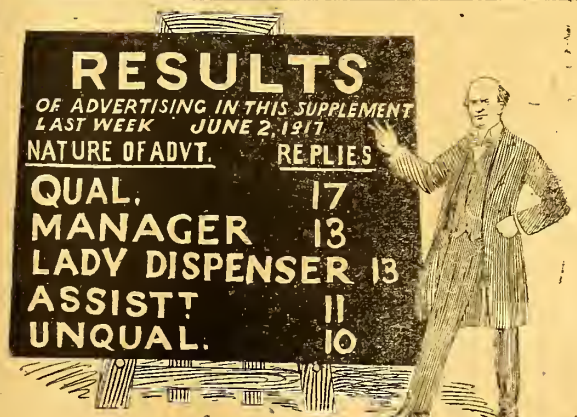
LONDON.—Qualified wanted for brisk Counter trade; ineligible for Army; whole day holiday; occasional Sunday evening duty; good salary. Apply personally, or write, stating full particulars and salary required, to Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, E. 2.

LONDON.—Qualified Assistant required in good-class Dispensing business with view to Management; must have undeniable references and large experience in Dispensing, Prescribing, Photography, and Buying; state age, full particulars, salary required, and when disengaged. Apply 258/37, Office of this Paper.

LONDON, N.—Managing Assistant (ineligible for the Army), married, and to live over business; an experienced and capable man required. Please state full particulars, including salary (house provided), to C. N. Coles, Pharmacist and Qualified Optician, 304 High Road, Tottenham, N.

LONDON, N.—Assistant required; lady or gentleman (if gentleman, non-liable or over military age); unqualified; Dispensing and Counter, with little N.H.I.; part time not objected to. Reply, stating age, experience, and salary required, to 259/130, Office of this Paper.

LONDON, N.W.—Qualified Assistant wanted for Dispensing business; furnished house provided; application from lady entertained if mother or lady friend could share the house. Apply P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W. 6.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

LONDON, N.W.—Lady Assistant required; familiar with N.H.I. Dispensing, and Chemist's Retail. Apply to W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, N.W.—Qualified Assistant wanted, man or woman, for evenings and some Sunday duty; free furnished house, and salary according to time given. Apply 260/18, Office of this Paper.

LONDON, S.E.—Wanted, an unqualified Assistant; good Extractor preferred; short hours; no Sunday or Bank Holiday duty; weekly half-holiday from 1 p.m. Apply Winton's Drug Stores, 66 High Street, South Norwood, S.E. 25.

LONDON, SOUTH.—Qualified Locum for latter part of August; also Assistant for whole of August, with view to permanency; please state, in reply, age, references, salary (to which there is no limit to man of proved ability). Apply 261/6, Office of this Paper.

LONDON, S.W.—Lady Assistant required, with some Dispensing experience and good handwriting. Apply, A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

LONDON, S.W.—Young lady for Chemist's business; one having some experience of Counter trade. Write H. T. Escritt, 8 Acre Lane, Brixton.

LONDON, W.—Temporary Assistant required, gentleman (over age) or lady, for relief work during July, August, and September. Apply, stating full particulars, salary required, to John F. Harrington, 15 Kensington High Street, W. 8.

LONDON, W.—Qualified (Minor) lady or gentleman (ineligible) Assistant required for first-class West-End Dispensing in old-established Pharmacy. Apply, by letter, giving previous experience, and stating salary (outdoors) required, 260/11, Office of this Paper.

MANCHESTER.—Young lady required for Chemist's Business; must have some experience with a Chemist; permanency. "Manchester" (257/301), Office of this Paper.

MANCHESTER.—Blain & Hankinson, Pharmaceutical Chemists, 69 Market Street, require a registered man over military age; short hours; no Sunday duty; state references and salary expected.

MANCHESTER.—An Assistant, lady or gentleman, required who is thoroughly experienced in high-class Business; no Sunday or Insurance work; state fully experience, age, salary expected, and when at liberty. Apply 50/58, Office of this Paper.

MIDLANDS.—Capable, energetic, qualified Manager wanted urgently for Wholesale and Retail business; must be thoroughly trustworthy; excellent prospects, and permanency assured for suitable man. Apply 257/37, Office of this Paper.

NEAR MANCHESTER.—£4 per week for Pharmacist; good Counterman; hours 8.30 to 8.0, except Saturday 9 p.m.; Wednesday afternoon off; no Sunday duty. Address, with full particulars, age, references, and photo, 259/2, Office of this Paper.

NORTHAMPTON.—Assistant (ineligible) for Mixed business; Photography, Dentistry, etc.; capable of taking charge during Principal's absence; state salary, etc., enclose photo (to be returned). Lucas, Medical Hall, Kettering Road.

PRESTON.—Unqualified Assistant in good-class Dispensing and Light Retail business in centre of the town; no Sunday or night duty. Applicants, who must be men ineligible for the Army, or women, should send full particulars of experience, age, and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

REDCAR.—Wanted, Assistant, ineligible, for the season; outdoors; send photo and usual references, salary. Apply C. J. Allan, Chemist, Redcar.

ROTHERHAM.—Wanted, a qualified Assistant for Mixed business; ineligible. References and salary required, Davy, Bridgegate, Rotherham.

READING.—Wanted, qualified Assistant for Dispensing and Light General Retail; lady or gentleman, if the latter must be ineligible; indoors. Apply, stating experience, full particulars, and salary required, to F. Tunbridge, 39 Castle Street, Reading.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH OF ENGLAND.—Manager, qualified (ineligible for military service), required to take entire charge of a Dispensing and Family-trade business; abstainer preferred. Send full particulars, salary required, and recent references, to 51/18, Office of this Paper.

SWINDON.—Assistant (ineligible) required for good-class Mixed Retail Dispensing and Photographic business. Full particulars to Green & Co., Chemists, Swindon.

UNIVERSITY COLLEGE HOSPITAL, Gower Street, W.C. 1.—Assistant Dispenser, holding Minor qualification (lady or gentleman), required immediately; salary £145 per annum; hours 9 to 5, Saturdays 9 to 1; additional attendances on two evenings weekly until 9, and every third week on Saturday afternoon and for one hour on Sunday. Apply to C. H. Hampshire, Pharmacist.

WORCESTER.—Assistant, with good experience, required; state age, references, salary required, etc. Anderson & Virgo, Chemists, Worcester.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (257/302), Office of this Paper.

A.A.A.—STOWMARKET.—Qualified Manager at once, to take full charge of Dispensing, Family, and Agricultural business; easy hours; no Sunday duty; in or outdoors. Full particulars and salary required to F. M. Wilson, M. Lines, Halton Camp, Bucks.

A JUNIOR Assistant, lady or gentleman, required in an Agricultural and Dispensing business; reasonable hours. Apply, with particulars of age, experience, salary required, to Gostling & Co., Diss, Norfolk.

A QUALIFIED lady Assistant for a Dispensing and Light Retail business; neighbourhood of Regent's Park, London; indoors. Apply 258/31, Office of this Paper.

ASSISTANT (ineligible for military service), or lady Assistant used to Dispensing and Counter; comfortable berth; two kept; please state age, experience, salary (outdoors), and latest references. Bevan & Son, Pharmacists, Harwich, Essex.

ASSISTANT wanted (qualified) for Dispensing Counter; ineligible for Army or over military age; outdoors. Apply L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

ASSISTANT required, having experience in executing orders received through the post for Patent Medicine and Druggist Sundries. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

ASSISTANT; must be good Window-dresser; no Sunday or Bank Holiday duty; outdoors; permanency; £3 commence; good chance for advancement. Apply, giving experience and full particulars, Hunter, 278 Bishopsgate, E.C. 2.

ASSISTANT (gentleman or lady) in a Family, Retail, and Dispensing business either for Counter, Dispensing, or both; two kept; full particulars as to experience, reference, and salary required (outdoors), or personal interview. Alban Atkin, 243 West End Lane, West Hampstead.

BRANCH Manager wanted at once; must be over military age or ineligible. Apply, personally or by letter, stating salary required, when disengaged, and enclosing recent photograph, to Parke's Drug Stores, 65 Harmood Street, N.W.

CITY Chemist has vacancy for Dispensing Assistant; must have had good experience and be ineligible for military service; £3 weekly; short hours; no Sunday work. Apply 261/17, Office of this Paper.

DISPENSERS, qualified, either lady or ineligible male, in old-established Business; London, W. Apply 48/29, Office of this Paper.

FRANK A. ROGERS, 327 Oxford Street, W. 1, will have a vacancy shortly for a Dispensing Assistant, lady or gentleman, with some previous experience; please give full particulars when writing.

IF a man damaged in the war would like to potter about a Pharmacy for a few hours daily, and at the same time augment his income, write 258/21, Office of this Paper.

JUNIOR or Improver, lady, for good-class Dispensing and Light Retail business. Apply, giving particulars of experience, to S. W. Dawson, M.P.S., 56 Knight's Hill, West Norwood, S.E. 27.

LADY Assistant wanted for Counter; good-class Store trade; S.W. district. Apply, personally or by letter, Coppen Bros., Ltd., 12½ Carey Street, Vincent Square, Westminster, S.W. 1.

LADY Assistant wanted to help with Dispensing and the Manufacture of Galenicals, etc.; state experience and salary required. J. & H. A. Averill, Pharmaceutical Chemists, Stafford.

LADY Assistant (outdoors), mainly for Dispensing; other lady Assistants employed. Frizell & Co., English and French Chemists, Leicester Square, W.C. 2.

LADY Dispenser-Bookkeeper to Doctor in small country town; state age, experience, and salary required. Apply Dr. McKean, Ledbury, Herefordshire.

MANAGER for Richmond Hill (married preferred), to reside on premises; personal interview preferred; Optical qualification an advantage but not essential. Apply Blanchford, Chemist-Optician, 76 High Street, Wimbledon, S.W. 19.

MANAGER, qualified, required at once (ineligible) to take full charge; knowledge of Agricultural business essential. Apply, with full particulars, experience, age, references, and salary required, to Allen & Neale, King's Lynn.

MANAGER wanted; Country Business; permanency; lady or gentleman; kindly forward full particulars. Frost, Romsey, Hampshire.

MANAGER, qualified, required for brisk Retail business; good salary; comfortable house; suburbs of South Coast town. Write, stating full particulars, to "B. P. T.," c/o 300 Christchurch Road, Bournemouth.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Manager required for high-class West-End Pharmacy. State salary required, age, and other particulars to 257/39, Office of this Paper.

QUALIFIED Chemist required for June 25; ineligible or over military age; brisk Counter trade. Apply, giving full particulars in first letter, stating salary required, to Oxens, Ltd., Chemists, Newcastle, Staffs.

QUALIFIED Manager wanted, with a view to purchase the Business of the late Mr. William Dodge, 142 Love Lane, Heaton Norris, Stockport. Apply to Mr. W. E. Sugden, 19 Dickinson Street, Manchester, or James Woolley, Sons & Co., Ltd., Manchester.

QUALIFIED Assistant (lady or gentleman); hours 9 to 8, Saturday 9, Thursday 1; no Sunday duty; state salary, etc. Fellows, 47 Worcester Street, Wolverhampton.

QUALIFIED Assistant, would suit elderly gentleman looking for light employment. Apply 260/1, Office of this Paper.

QUALIFIED Assistant wanted; no Sunday duties; no Insurance Dispensing; hours 8 a.m. to 8 p.m., 1.30 Saturdays; Lancashire coast town; salary £3 weekly. Apply 259/32, Office of this Paper.

QUALIFIED Assistant (outdoors) required immediately; healthy industrial town 20 miles from Manchester; preferably lady, ineligible, or, if liable military service, of low classification; no Sunday work. Particulars, with references, photo, salary required, and military position to 259/14, Office of this Paper.

RELIABLE Dispenser wanted (lady or gentleman) for Surgery; Thursdays off; good salary to suitable applicant. Apply or write, The Surgery, 24 Osborn Street, Whitechapel, E. 1.

SALESMAN and Dispenser wanted; unqualified; must be ineligible or over military age. Apply, personally or by letter, stating salary required and when disengaged, and enclosing, if possible, recent photograph, to Parke's Drug Stores, 65 Harmood Street, N.W.

SPRACKETTS, Shipping and Retail Chemists, Tramways Centre, Bristol, require immediately a capable, unqualified Assistant; ineligible or discharged; enclose photo, salary required, and full particulars.

WEST HAM UNION.

DISPENSER.

THE Guardians invite applications for the appointment of Dispenser (male or female) at their Infirmary, Whipps Cross Road, Leytonstone, E. 11, for the period of the war, at a salary of £120 per annum, with dinner and tea daily. Candidates should state their qualifications. Applications will not be considered from persons eligible for enlistment. Further particulars may be had on application to the Medical Superintendent at the Infirmary. Forms, upon which application must be made, can be obtained from the Acting-Clerk to the Guardians, Board Room, Union Road, Leytonstone, E. 11, or will be forwarded on receipt of a stamped, addressed, foolscap envelope, and should be returned by June 18th, 1917.

THE LORD DERBY WAR HOSPITAL, WARRINGTON.—Wanted, temporary Dispenser (female); must be fully qualified; salary £78 per annum. Applications, stating age, experience, qualifications, and references, must be sent to the Administrator at once.

UNQUALIFIED, reliable Locum immediately; nice comfortable berth. Apply, personally if possible, Oliver & Co., 487 High Road, Tottenham.

W. GILL, Pharmacist and Optician, Radford Road, Nottingham, requires Assistant for Suburban business; good Counterman; weekly half-holiday; no Sunday duty; good salary for suitable man; state terms and references.

WANTED, West Midlands, young lady Assistant for good-class Retail, Dispensing, and Photographic Chemists' business; outdoors. Full particulars on application to "L. N." (260/21), Office of this Paper.

WANTED, Locum for 3 weeks; lady; qualified; indoors. Huggins, Chemist, Wainfleet, Lincs.

WANTED, lady Locum, immediately; light duty; country; references. Croft, Pharmacist, Tibshelf, Dys.

CANCER HOSPITAL, FULHAM ROAD, LONDON, S.W. 3.

WANTED, an Assistant Dispenser, Apothecaries' Hall and ineligible for military service; hours 9 till 6, Saturdays 9 till 2. Apply, by letter, addressed to G. Westlake, Pharmacist, at the Hospital, stating salary required and enclosing recent testimonials.

WANTED, qualified Locum for about 10 days early in July. Also unqualified Locum, lady or gentleman, last fortnight in August. Full particulars, salary (outdoors), to S. S., 436 High Road, Streatham, S.W.

YOUNG lady Assistant; with some knowledge of Dispensing preferred; outdoors. Write, with full particulars and salary required, to W. Bell, Leverett & Frye, Ltd., North Finchley, N. 12.

YOUNG lady Counter Assistant, with experience in the selling of Perfumery and Druggists' Sundries in ordinary demand; smart appearance; hours of work 8.45 to 6 o'clock, 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, Ltd., 105 Victoria Street, S.W. 1.

YOUNG lady Dispenser required; one with Counter experience preferred; must have Apothecaries' Hall qualification. Apply, personally, any morning except Saturday, Parke's Drug Stores, 65 Harmood Street, N.W.

WHOLESALE.

BIRMINGHAM.—Smart young lady required for Office of well-known firm; must have had experience in handling N.H.I. Scripts and have had some experience in a Chemist's establishment; permanency. Apply 257/30, Office of this Paper.

A RELIABLE and capable man wanted by a London Wholesale House to take charge of Goods Receiving Department; permanency and good wages to an experienced applicant. Apply, giving full particulars, wages expected, and past experience, to 261/12, Office of this Paper.

ASSISTANT required for Chemical Apparatus business; ineligible; Minor qualification not necessary; accustomed to management and willing to travel if necessary; must have good knowledge of trade in Laboratory Supplies; progressive salary to suitable man. Finlayson, 141 High Street, Stockton-on-Tees.

LABORATORY Assistant required, with experience of Manufacturing Toilet Preparations; London. State age, wages, and experience to 46/68, Office of this Paper.

LABORATORY Assistant (lady), Minor, qualified, required in London Factory for Perfumery and Toilet Products; progressive salary, and permanency to accurate and responsible worker. Apply, by letter, to "Export" (46/44), Office of this Paper.

REPRESENTATIVES, experienced and qualified, required for local and Yorkshire grounds. Apply, with references and full particulars, stating ground covered and salary required, to Goodall, Backhouse & Co., Leeds.

SECRETARY wanted by a small Manufacturing Company; applicants must have had experience in Proprietary Articles. Apply 51/27, Office of this Paper.

TABLET-MAKER wanted by a firm of Manufacturing Chemists in London; ineligible; good post for the right man. Letters to "Compressor" (49/50), Office of this Paper.

MEDICINAL TABLET-MAKER.

WANTED, by firm of Wholesale Druggists, thoroughly experienced man to take charge of Plant and control staff; permanent situation and liberal salary offered to a really capable man. Reply, giving fullest particulars of previous experience, etc., etc., to 50/41, Office of this Paper.

WANTED, a man to make himself generally useful in Dispensary Laboratory; one with previous experience of Drug trade preferred. Apply, stating wages required, to "Pharmacist," West London Hospital, Hammersmith, W. 6.

WHOLESALE Drug Assistants, discharged from the Army.—RAINES & CO., WHOLESALE DRUGGISTS, YORK, will be glad to have applications for posts in the WET ROOM, DRY ROOM, or WAREHOUSE. Give full particulars as to experience, salary required, etc.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CHINA.—One or two thoroughly competent Assistants (ineligible for military service); age 21-30; must have had good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address, "China" (261/19), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

ADVERTISER, ineligible, experienced Retail and Wholesale, quick, up to date, seeks competent berth; view Partnership or succession; or as permanent Confidential Assistant; salary about £4. Harrison, 9 North Street, Barking.

AS Locum, Manager, or Assistant; 35 years' experience; disengaged; smart, etc. "Drugs," 3 Montrose Terrace, Barnoldswick via Colne, Yorks.

AS Locum, by elderly, qualified Chemist; August. Apply 260/39, Office of this Paper.

ASSISTANT; experienced; ineligible; unqualified; outdoors. Morris, 43 Adolphus Street, New Cross, S.E. 8.

ASSISTANT, 23, discharged from Army, Dispensing, Counter, Windows, London or South Coast preferred, wants post in good-class Business. Apply "Iridin" (260/15), Office of this Paper.

ASSISTANT, unqualified, 41, exempt, requires Locum or Relief work; London only; now disengaged; good Dispenser and Counterman; West-End experience. "Saxin" (258/27), Office of this Paper.

ASSISTANT or Locum; ineligible; South or South-West Coast; salary; outdoors; married. "Senex" (261/25), Office of this Paper.

BRANCH Manager or Locum; C 3; 38; varied experience; good references; unqualified. "Rhei," 33 Crosby Road, Birkdale, Southport.

CHEMIST'S Daughter; 23; 2½ years Retail Counter; no Dispensing; London only. L. C., 761 Garratt Lane, Tooting, S.W. 17.

COUNTER experience required by Hall student (lady). McGowan, 74 Sutton Road, Muswell Hill.

HOSPITAL Dispenser, Locum; qualified. T. Irving, 66 Rowfant Road, Balham.

LADY (Hall qualification) seeks temporary post in or near Liverpool for fortnight commencing June 18th. Apply Miss Gell, Bootle Borough Hospital, Liverpool.

LADY Dispenser (Hall) seeks post Chemist or Doctor; South Wales preferred. Apply 257/36, Office of this Paper.

LADY Dispenser, some experience, seeks situation. Burton, Green Hammerton, York.

LADY, Apothecaries' Hall certificate, requires post as Dispenser; Doctor, Chemist, or Institution; Manchester or close vicinity. Unwin, 86 Great King Street, Macclesfield.

LADY Dispenser, Hall qualifications, requires immediate engagement with Doctor. Stewart, Markfield, Leicester.

LADY Dispenser (Hall) seeks situation; Doctor or Institution; one year's experience; Book-keeping, perfect French, First Aid, nursing certificates. Bailey, 53 Leinster Square, W. 2.

LADY; 24; unqualified; 7½ years' experience in Dispensing and Counter. Apply 260/13, Office of this Paper.

LADY Dispenser and Bookkeeper desires post with Doctor; permanent or Locum; good experience and good references; please state salary and particulars. Apply 259/23, Office of this Paper.

LADY (part Hall qualified) desires post Assistant Dispenser; Yorkshire, West Riding preferred. Apply 261/1, Office of this Paper.

LADY Dispenser (Hall) requires post; full or part time; some experience; Hospital or Institution preferred. Apply 261/26, Office of this Paper.

LOCUM; 44; tall; disengaged. Howes, 15 Hexthorpe Road, Doncaster.

LOCUM; lady Dispenser (Hall); good reference from Cooper's, London; medical student; part or whole of July, August, September; Edghill, Bramber, Hale, Altrincham.

LOCUM, qualified, well recommended, disengaged July 5th. Stone, c/o Kingsley & Co., 50 Queen's Road, Brighton.

LOCUM or permanency; 48; unqualified; disengaged fortnight's time. "Jesmond," 37 Upper Kennington Lane, S.E.

LOCUM; 20 years' experience; reliable; abstainer; disengaged; terms moderate. "Sorby," 139 Linthorpe Road, Middlesbrough.

LOCUM.—Pharmacist offers relief; fortnight or less; July; London or seaside preferred. Apply 261/2, Office of this Paper.

LOCUM-MANAGER, disengaged 15th; Major; 50; experienced. "R.," The Pharmacy, Yelverton, Devon.

LOCUM-MANAGER; disengaged July 9th; Major; 50; experienced. 259/25, Office of this Paper.

MANAGER; unqualified but competent and experienced; over military age; smart, active, gentlemanly; country or seaside; married; no family; permanency desired. P., "Park House Cottage," Burgoyne Road, South Norwood.

MANAGER or Locum; qualified; 42; good experience; highest references; state salary. "Alpha," 41 Duke Street, Southport.

MANAGEMENT or very easy Partnership required by Ph.C., over military age, in first-class Business (only); University training, and conversant with Medical literature and progress; would form mutually beneficial alliance with Pharmacist called up from a business too good to throw on the market in the ordinary way. "Opt" (261/7), Office of this Paper.

MANCHESTER DISTRICT.—Lady, with good Retail experience, or could manage Branch. Apply 256/39, Office of this Paper.

QUALIFIED Chemist requires Managership in Manchester district. Reply Alexander, 62 Heywood Street, Cheetham, Manchester.

QUALIFIED Chemist requires position as Manager, Assistant, or Dispenser, or would take charge for another being called up; over military age; London or country; Continent entertained. Smith, 9 Bexhill Road, Crofton Park, S.E. 4.

QUALIFIED Dispenser seeks Locum with Doctor; Cornwall. Hanna, Hendra's Hotel, Carbis Bay.

QUALIFIED; 26; Dispensing and Counter experience; C 3. Chemist, 23 Chelsham Road, Clapham, S.W.

QUALIFIED, 25, conditional exemption, desires berth in Midlands. Apply 258/39, Office of this Paper.

SHEFFIELD OR LIVERPOOL.—Unqualified, 25, discharged from Army, requires light part-time situation; good experience and references. W., 97 Heavygate Road, Sheffield.

SUBSTITUTE for A or B man; unqualified; exempt; C 2; 30; married; first-class Dispensing experience; good salary and reasonable hours. Apply 260/2, Office of this Paper.

THOROUGHLY experienced Dispenser requires work for first fortnight in July. Miss Jackson, Green Door Studio, Woodstock Road, Bedford Park, W. 4.

UNQUALIFIED, age 44, wants situation town or country; experienced Agricultural trade. Apply 257/38, Office of this Paper.

YOUNG lady (Hall qualification) requires post as Dispenser with Hospital or Doctor. Apply Dod, 1 Old Town, Clapham, S.W. 4.

WHOLESALE.

ADVERTISER; 31; ineligible; accustomed to management of Drug Stores and Manufacturing Chemists' and Drysalters' Preparations; 15 years' Wholesale and Retail. 71 Quicks Road, Wimbledon.

MANAGER, 46, desires berth in first-class House, Patents Department; thorough knowledge of same; perfect control of staff, both sexes; life experience. Apply 261/8, Office of this Paper.

RE-ENGAGEMENT required by lady, with very large connection, as Representative to a firm manufacturing Foods, etc., for infants and invalids. "Nurse" (257/3), Office of this Paper.

REPRESENTATIVE, South and South-West England, wants additional lines, Toilet Articles, Perfumes, Brushes, etc., or Proprietaries. Apply 259/9, Office of this Paper.

YOUNG, energetic Russian, with wide experience in England and abroad, seeks post as Assistant Chemist or similar opening in Manufacturing business; good references. Apply 258/22, Office of this Paper.

YOUNG Chemist, 25, ineligible, 11 years' first-class experience in Chemicals, Galenicals, Toilet, and General Laboratory, desires permanency. Apply 261/5, Office of this Paper.

MISCELLANEOUS.

FOR immediate Disposal, 65 cwt. Bichromate of Potash. Offers to be sent to 254/3, Office of this Paper.

OFFERED, 400 lots Leos Pills and Tablets, including the following: Tablets, Phenacetin and Caffeine (about 40,000), Antipyrine and Caffeine, Blaud's Pill and Combinations, Bismuth Rhubarb Soda, etc., Betanaphthol, Cascara, 3, 4, and 5 gr., chocolate coated, Lithia Cit. Effer., Quinin. Sulph., Phenolphthalein, gr. ¾, Ergotin, Aloin. Co., Anticonstip., Laxative Vegetable Pills, Plumbi c Op., Aloes et Asaf., Aloes et Ferri, Aloes et Myrrh, Coloc. Co., Coloc. et Hyos, Galbani Co., Pil. Hydrarg., Scillæ Co., Cochia., Calomel, Blaud Combinations, Castor Oil, Hyd. c. Cret. c. Ipec. Co. All are offered at 33⅓% off net list, and full list will be sent on application. A. S. Price & Co., Ltd., Blackheath, Birmingham.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesman, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

Developing. Printing. Enlarging

Developing Spools, 6 Ex., **6d.**; 12 Ex., **1/-**; V.P.K., **6d.**
Prints and Postcards up to and including 5×4, **1d.** ea.
ENLARGEMENTS. LIST FREE.
Prompt dispatch. Trade discount, **25 per cent.**
Postage extra.

MARTIN, Chemist, SOUTHAMPTON.

TO WHOLESALE CHEMISTS, SHIPPERS, etc.

We compress tablets from your own ingredients or otherwise, plain or coated. Large quantities dealt with quickly. Superior Machinery and Scientific Control.

Lowest quotations for Cascara tablets in bulk.

R. GIBBINS & CO., 1 Birkbeck Road, Kingsland, LONDON, N.E.

8/6 3 Years 4 Columns | **Jay Mack's Ledger** | **10/6** 4 Years 5 Columns

gives Yearly Sales, Purchases, Exes., with only 10 mins. work weekly; Easy Stocktaking explained; Form Pages show Balance Sheets and Income Tax Deductions; no previous Book-keeping experience needed.

On approb. on receipt of cheque. 6d. Booking Fee if returned.

Mack-Ivor, Hightown P.O., Crewe. | Ayrtons Evans, Blaesda'e, Ucal Raimes (Edinb.) | Australia: Elliotts, C.D.A. | S. Africa: Border Drug, Gardners.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
Lowest Market Prices Charged.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior quality. No advance in price.
6 and 8 ounce .... 1s. per gross, in 6 gross bags.
Vials ... ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W.1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W.1.
Orders sent to either establishment have attention.
Established 100 years.
Bankers: London County and Westminster Bank, Bloomsbury Branch

HIGH PRICES FOR CAMERAS

Original Cost Price for Vest Pocket Kodaks, R.R. Lens, and Watch Pocket Carbines. Try us for Single Models, Dealers' Stocks, Ensignettes, &c. We reply promptly and courteously, and goods are returned at once, CARRIAGE PAID, if no business is done.
WATSONS, 84 High St., Sheffield.

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for May 19, p. xxxvi.

WANTED.

Adalin tablets (50/58)
Albargin, 1 oz. (50/20)
Eugallol (50/58)
Euresol pro capillis (50/58)
Sozodont liquid (50/58)

EXCHANGE COLUMN

FOR DISPOSAL.

DRUGS AND CHEMICALS.

OILS.—½ lb. Croton, 3s.; ½ lb. Staveacaere, 3s.; 1 oz. Neroli, 6s. 6d.; 2 oz. Coriander, 7s. 6d.; 1 oz. Camomile, 2s. 6d.; 6 oz. Fennel, 6s.; 1 oz. Ext. Belæ Liq., 2s. 6d.; ½ oz. Fel. Bovin. Pur, 3s. 6d.; ½ oz. Gum Galban. Colat, 2s. 6d.; ¼ lb. Lupulin, 2s.; ¼ lb. Araroba, 2s.; ¼ lb. Pulv. Guarana, 2s.; 1 oz. Iodol, 2s.; 2 oz. Urethane, 3s. 6d. Shaw, 93 Dewsbury Road, Leeds.

OPTICAL AND PHOTOGRAPHIC.

COLUMBIAN Photo Burnisher; 10-inch roller; in splendid condition; 30s., c.p.; worth double. Gamlen, Chemist, West Hartlepool.

SHOP FITTINGS.

SCALES, Dispensing; Maws' pattern 1917/R; 25s. Avery's Scales and Weights, with flat copper weighing Pan, weigh 28 lb. What offers? Rowland Smith, Retford.

FOR Disposal, a receipt-giving O'Brien Check Till in perfect working order; any reasonable offer accepted; all information given about size on receipt. Apply 256/40, Office of this Paper.

MISCELLANEOUS.

PILL Machine, 24 × 5 gr.; perfect; 15s. Burrows, 92 Lenton Boulevard, Nottingham.

QUININE Pessary Mould for Sale, good as new, for 12; 10-minim Suppos. Mould, torpedo shape, for 12. W. F., 17 Warrender Road, N.

FOR Sale, eight six-gallon pear-shape Carboys, with cut-glass stoppers; complete with mahogany stands on runners. Palmer, Temple Pharmacy, Cherry Street, Birmingham.

WANTED.

WANTED, Otto of Rose. Apply, 34/36.

GLYCERINE for medicinal use. Apply 258/30, Office of this Paper.

BLOCK liquorice wanted; not in sticks. Apply, 233/24, Office of this Paper.

WANTED, Vin Aurantii in any quantities. Lowest price to Newton Wright, Ilford.

WANTED, two small self-adding Tills. 10 Market Place, Wisbech.

WANTED, Iodoform, Ac. Acetyl. Sal, Phenacetin for cash. Moorhouse, Chemist, Southport.

WANTED, Munyon's Dyspepsia Cure. State quantity and price to Ritchie, Chemist, Montrose.

SACCHARIN Powder, 500 550, in any quantity. Offers to Battersby, Chemist, Southport.

SACCHARIN wanted; state quantity, quality, and lowest price. Walton, Chemist, Batley Carr.

INVALID Chair wanted. Particulars and price, Guest, Chemist, Tooting Broadway, S.W. 17.

WANTED, Lithium Hippurate; state quantity and price. Bell, Chemist, The Strand, Southsea.

KODAK Vertical Tanks wanted; set of three or less. Marshall, 33 Old Devonshire Road, Balham.

OPTICAL Trial Case wanted. Blumenthal, Pharmacist, 164 Lightbowne Road, Moston, Manchester.

WANTED, Pill Machine, 5 grain; good condition. Price to Rouse & Co., Wigmore Street, London.

WANTED, good second-hand or new 5-pt. De Fevre's Seltzogene. Kindly state lowest cash price to 48/49, Office of this Paper.

WANTED, Chemical Apparatus and Chemicals; or would purchase contents of laboratory. 32 Galveston Road, Wandsworth, S.W. 15.

WANTED, several bottles Ceridin Pills, C. F. Boehringer and Soehne, Mannheim. Victor E. Hanna, 70 Lower Mount Street, Dublin.

GLASS Tubes, metal screw-cap, two and a half inches by ten-sixteenths inch. Send sample and quote per 1,000 or quantity to offer, 50/1, Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED for cash, large or small quantities of Hair, Shaving, Nail, and Tooth Brushes; branded or plain. Particulars and price to "R. E.," 31 Iotake Road, Bradford.

WANTED, Glass Bottles, white, 2 to 4 oz., screw caps preferred though not essential. Also Tins for boot polishes, liquid metal polish, and health salts, etc. Samples and prices, "Brytenup" Polish Works, Preston.

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.
Order through your Wholesale Drug House.
D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.
Wholesale Prices on Application.

Ayrton's Tea Tablets

(plain)

Important revision of prices.

Instructions have been placed with the big popular daily and weekly papers, and our announcements will be busy creating the desire to buy somewhere about the time this appears.

The new prices are

Retail, per tin, 9½d.

Wholesale, per doz. 7/6

(Not less than 1 gross) per gross, 88/-

Carriage is paid on 1 gross lots and upwards within the British Isles.

If you require fresh window material for stocks in hand it may be had for the asking.

AYRTON, SAUNDERS & CO. Ltd.

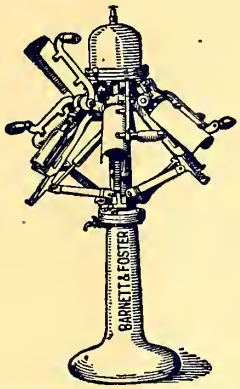
Wholesale Druggists **LIVERPOOL**

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., 1 New-Street Square, E.C. 4, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*June* 9, 1917. [72]

Crowning Machines

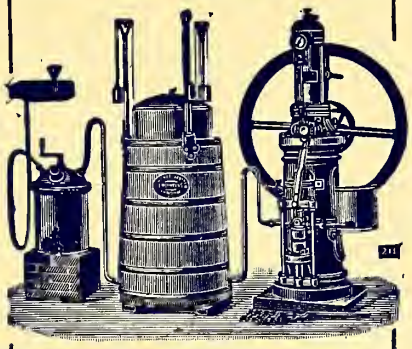
Foot, hand, and power operated crowners for all outputs. With and without Automatic Feed.

"Roundabout" Fillers



For all bottles. Fill on our back-pressure system and save 50 per cent. in working costs. Nine sizes, hand and power.

"Niagara" Soda-water Machines



Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas-work and automatic saturating cylinder. The best machine for export.

Everything for Bottling

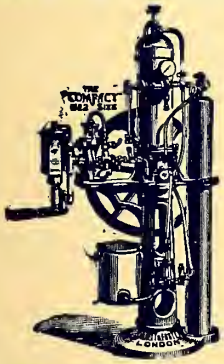
BARNETT & FOSTER,

ENGINEERS,

Dept. N1, Eagle Wharf Road, LONDON, N.1 ENGLAND.

Latest Lists Post Free Anywhere.

"Compact" Soda-water Machines



For use with liquefied carbonic acid gas. A complete mineral water plant, comprising soda-water machine and one or two fillers on one base. Easy to instal, simple to operate. Outputs up to 1,200 doz. bottles per day.

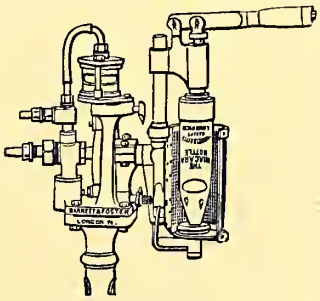
Syphon Fillers

Small and large, hand and power, machines. Can be supplied to fill on our back-pressure system.

Bottles & Syphons

We can always supply codd, crown, cork, swing or screw stoppered bottles in all sizes, also our "London Made" syphons with pure tin tops.

Turnover Fillers



Our famous "Ideal." With this machine a lad can fill and syrup 80 dozen large bottles per hour.

No. 163.

THE BRITISH DRUG HOUSES LTD

B.D.H.

'EASTERN FOAM'

'The Cream of Fascination.'——
——Sales larger than ever.

EXTRACT FROM A PHARMACIST'S LETTER.

. . . . "I have to thank you for the receipt of three dozen 'Eastern Foam,' but it is not a bit of good in such small lots; this is all gone.

"I HAVE NEVER HANDLED A CREAM THAT SOLD SO READILY, ONCE INTRODUCED, AND WITHOUT ADVERTISING.

. . . . "Please book me two gross, send them as soon as possible, and send some at once, per Sutton, to keep me going.

J. A. B.——."

May 21, 1917.

RETAIL (P.A.T.A.)

1/-

WHOLESALE

8/6 PER DOZ.

Special terms for displays.

Most attractive advertising matter in colours.

Specimens on request.

22-30, Graham Street, City Road, LONDON, N.

Printed for the Proprietors by SPOTTISWOODE BALLANTYNE & CO. LTD., New-St. Square, E.C. 4; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*June* 9, 1917